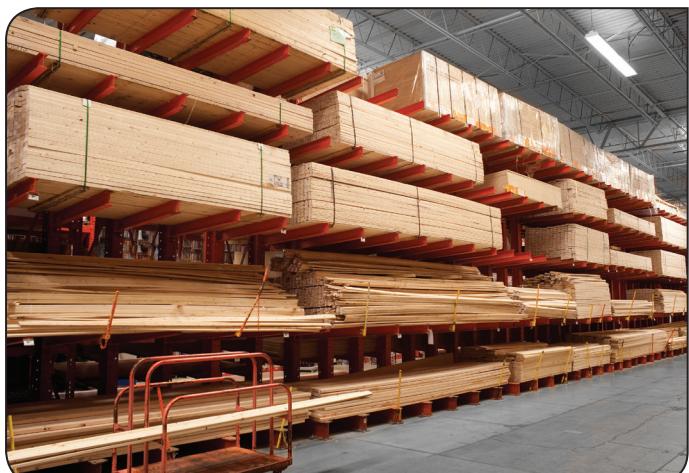




United States Department of Agriculture

# U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

James L. Howard  
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## Abstract

This report presents current and historical annual data on the production, trade, consumption, and prices of timber products in the United States. The report also focuses on national statistics but includes some data for individual states and regions and for Canada. The data were collected from industry trade associations and government agencies. They are intended for use by forest land managers, forest industries, trade associations, forestry schools, renewable resource organizations, individuals in the major timber producing and consuming countries of the world, and the general public. A major use of the data is tracking industry production and consumption trends over time. One of the major shifts that has occurred in the wood-using industry since the great recession of 2008–2010 is that both production and consumption of roundwood per capita increased. Because of increased paper recycling and increased processing efficiency, the consumption per capita in roundwood equivalent decreased from 83 ft<sup>3</sup> in 1986 to 49 ft<sup>3</sup> in 2008. But during the most recent time period, the increase in production per capita was caused by the

U.S. economic recovery, which positively impacted wood markets. In the 1960s and 1970s, consumption averaged 65 ft<sup>3</sup> per capita before increasing and peaking in 1986 to 83 ft<sup>3</sup> per capita. Since 2004, consumption per capita has continued to steadily decrease, falling to 42 ft<sup>3</sup> in 2009 before increasing to 52.4 ft<sup>3</sup> in 2017. Per capita consumption in 2017 was 52.4 ft<sup>3</sup>, which was the eighth consecutive year of increases. Since 1999, paper consumption fell from 57 to 32 million tons in 2017. Since 1999, newsprint capacity declined from 7.4 to 1.5 million tons in 2017 and printing and writing paper fell from 29.5 to 15.9 million tons of capacity in 2017. Another shift occurring during the past several years is increased emphasis on wood energy use, which has shown wide fluctuations during the last decade and into 2017. One exception to this trend is pellet production and trade, which has continued to grow for the last 5 years. Another shift occurring is the potential for increased production of new products such as cross-laminated timber with the establishment of multiple manufacturing facilities in the Pacific Northwest.

Keywords: production, consumption, import, export

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# **U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017**

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## Preface

This report includes data for 1965 to 2017. Data for the years prior to 1965 can be found in earlier reports in the series. Since the last publication of this series (Howard and Jones 2016; data compiled through 2013), many agencies have discontinued the collection of various data. This change is indicated on the tables, where applicable. Some data were derived from mathematical calculations, and some show conversions from different units of measurement.

### Factors for converting units of measurement to metric and English units<sup>a</sup>

Unit	Conversion factor	Metric and English unit
square foot	0.0929	square meter
cubic foot (log trade)	0.028317	cubic meter
short tons (chips)	0.0185	1,000 cubic feet
board foot (hardwood lumber)	0.00236	cubic meter
board foot (softwood lumber)	0.00170	cubic meter
board foot (lumber export and imports)	0.00236	cubic meter
board foot (logs)	0.00453	cubic meter
1,000 square feet (1/8-in. panels)	0.295	cubic meter
1,000 square feet (1/4-in. panels)	0.59	cubic meter
1,000 square feet (3/8-in. panels)	0.885	cubic meter
1,000 square feet (3/8-in. panels)	2.036	square foot (surface measure)
1,000 square feet (1/2-in. panels)	1.18	cubic meter
1,000 square feet (3/4-in. panels)	1.77	cubic meter
cubic meter <sup>b</sup>	0.0023	million square feet (surface measure)
square meter	10.7639	square foot (surface measure)
cord	2.27	cubic meter
cord	2.65	green ton
ton	0.0003	1,000 cords
ton (short ton)	0.907	metric ton
pound	0.453592	kilogram
pound per cubic foot	16.01846	kilogram per cubic meter
inch	25.4	millimeter
British thermal unit	0.001	megajoule

<sup>a</sup>U.S. Department of Agriculture, Forest Service (48,49).

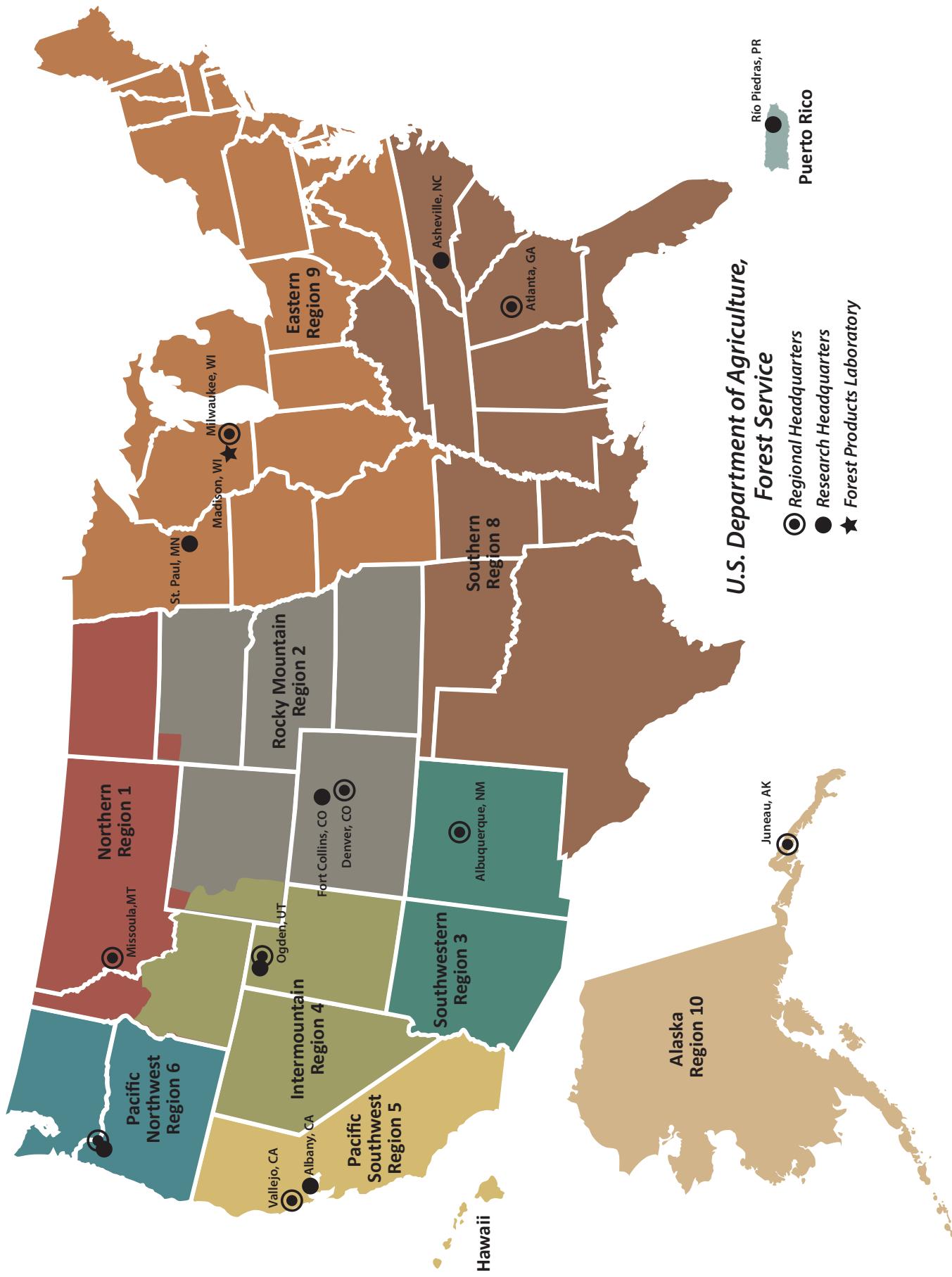
<sup>b</sup>Based on square feet 3/8-inch panels.

Throughout the tables and text, billion denotes  $10^9$ . The references cited in the text and in the tables are listed separately. Text references are listed in literature cited. The sources for data in the tables are listed in an annotated bibliography, which is cross-referenced to the tables. This report is available through the Forest Products Laboratory web site ([www.fpl.fs.fed.us](http://www.fpl.fs.fed.us)), and the tables are available through the Forest Service Data Archive (<https://doi.org/10.2737/RDS-2018-0035>). Tables of conversion factors and a map of Forest Service Administrative regions follow.

### Factors for converting standard units to short tons

Product	Standard unit	Weight of wood per standard unit (short tons)
<b>Roundwood products</b>		
Softwood	1,000 cubic feet	17.5 air dried
Hardwood	1,000 cubic feet	20.0 air dried
Softwood	cord (80 cubic feet)	1.4
Hardwood	cord (80 cubic feet)	1.6
<b>Lumber</b>		
Softwood	1,000 board feet	0.974
Hardwood	1,000 board feet	1.680
Laminated veneer lumber	1,000 cubic feet	17.5
<b>Structural panels</b>		
Softwood plywood	1,000 square feet, 3/8-in. basis	0.544
Waferboard and OSB <sup>a</sup>	1,000 square feet, 3/8-in. basis	0.866
Medium-density fiberboard	1,000 square feet, 3/4-in. basis	1.406
<b>Nonstructural panels</b>		
Hardboard	1,000 square feet, 1/8-in. basis	0.380
Insulation board	1,000 square feet, 1/2-in. basis	0.367
Particleboard	1,000 square feet, 3/4-in. basis	0.578
Hardwood plywood	1,000 square feet, 3/8-in. basis	0.657
Hardwood plywood	1,000 square feet, surface measure	0.2
Pulp, paper, and board	1,000 tons	1,000
Other industrial products	1,000 tons	16.5

<sup>a</sup>Oriented strandboard.



## Highlights

Economic activity in most of the major timber products markets, including paper and paperboard, remained volatile in 2017, although some product markets grew (such as softwood lumber production) while other production markets showed little change or declined from the previous year. Paper and paperboard production held essentially stable increasing by 0.1% in 2017 from 2016. New housing construction, which accounts for more than a third of the U.S. softwood lumber and structural panels consumed and accounts for substantial volumes of other softwood and hardwood products, grew in 2017 but remained below the peak housing production year of 2005. Consumption of oriented strandboard (OSB) during 2017 continued to exceed plywood consumption as OSB production increased 4.9% in 2017 compared with 2016. The total industrial production index, an important demand determinant for pallet lumber, containerboard, and some grades of paper, increased 1.8% in 2017 (Table 1). Private nonresidential construction expenditures increased in 2017 compared with 2016, and residential fixed investment also increased during 2017. Wood energy use in the United States continued to be volatile, declining during 2017 although wood pellet production grew (Table 60).

The U.S. housing market strengthened during 2017 as sales of both new and previously occupied homes began to rebound from all-time record lows. Starts of conventionally built homes (excluding mobile homes) increased by 2.5% from a year earlier to 1.2 million units during 2017. New and existing home sales in 2017 totaled 6.2 million units; this number consisted of 5.5 million units that were previously occupied and 616 thousand that were new units. A record high for home sales was established in 2005 when 8.4 million units were sold. Of the 8.4 million units sold, 7.1 million units were previously occupied homes and 1.3 million were new units. In terms of market share within region in 2017, new homes sold were strongest in the South, with 650,000 units sold. This represented 50% of all new sales in the United States for 2017. The production index for final products and nonindustrial supplies advanced in 2016 and 2017. The production of durable consumer goods, which includes furniture and fixtures, had moderate to noticeable gains in 2016 and 2017. The index for consumer nondurables, which includes paper products, edged up slightly in 2016 and 2017. Another significant indicator of demand for wood products increased in 2017 relative to 2016: total industrial production rose in 2017, increasing by 1.8%. Housing trends in 2017, along with comparably stronger economic growth, caused the lumber industry to rebound and exceed production levels of one year earlier, but it still remained well below peak production levels of 2005. U.S. softwood lumber production remained below record levels by 17.0%.

The most significant problem facing housing markets since 2017 is the escalation of framing lumber prices, which are up 59% since the start of 2017. Recent National Association of Home Builders (NAHB) surveys suggest the price for lumber has overtaken the availability of labor as the primary business challenge for home builders. Since the beginning of 2017, rising lumber prices have added more than \$7,000 to the price of a typical new home and more than \$2,000 to the price of a typical apartment.

U.S. consumption of wood and paper products required roundwood input to make products produced in the United States (for domestic consumption). This consumption of roundwood to meet the needs of U.S. consumers (including fuelwood) increased 1.0% per year between 1965 and 1995, from 13.3 to 19.2 billion ft<sup>3</sup>. This consumption increased to 20.0 billion ft<sup>3</sup> in 2005 before decreasing to just 13.1 billion ft<sup>3</sup> in 2009 during the great recession. By 2017, this consumption had recovered to 17.1 billion ft<sup>3</sup>. U.S. production of wood and paper products plus fuelwood use required roundwood harvest from U.S. forests, which also increased 1.0% per year from 1965 to 1995, from 12.3 to 17.6 billion ft<sup>3</sup>. In contrast to roundwood needed for U.S. product consumption, U.S. roundwood harvest needed for U.S. production has declined since 1991 from 18.8 to 15.9 billion ft<sup>3</sup> in 2017, which was 3.7 billion ft<sup>3</sup> above the level of harvest in 1965. The 15.9 billion ft<sup>3</sup> continued the upward trend of eight straight years of production increases since 2009, which reversed the trend of production declines resulting from the economic downturn of the great recession (Table 5a).

During 2017, apparent consumption of most timber products increased compared with previous year levels. Western production of softwood lumber from the California redwood region increased slightly at 1.1%, and western softwood lumber production increased by 3.0%. Domestic markets for hardwood lumber have been flat in recent years as reflected in four consecutive years of flat production. The combined roundwood and forest chip production for pulp and OSB mills decreased by 1.2% in 2017 from 2016 (AF&PA 2018a). Softwood plywood production reversed its declining trend, increasing in 2017 by 2.5% compared with 1 year earlier. Consumption of OSB continued to exceed plywood consumption during 2017 and has remained above plywood consumption since 1998. Shipments of particleboard and medium-density fiberboard (MDF) were relatively unchanged in 2017 compared with 2016.

U.S. furniture production has essentially been flat since 2015. Although the U.S. furniture market has been expanding, domestic furniture producers have been losing market share because U.S. furniture imports have grown to meet the increased demand. Continued growth in U.S. imports of Chinese, Vietnamese, Indonesian, and Malaysian

furniture presents an increasing problem for U.S. furniture manufacturers and the companies that supply them with nonstructural panels such as particleboard and MDF as well as hardwood lumber. Imports totaled \$5.5 billion in 2017, up 14% from 2016. Shipments from China were \$3.8 billion, up 9.3%. Imports from Vietnam totaled \$670 million, up 49%, and shipments from Mexico totaled \$364 million, up 10.3%. Imports accounted for roughly 35% of the upholstered furniture sold in the United States in 2017, up from 32% in 2016. The ongoing disparity between U.S. furniture production and imports is a sign that the strong U.S. dollar is making the relatively lower prices of furniture imports more attractive to customers (APA — The

Engineered Wood Association 2018a). Not only has total lumber consumed by the U.S. furniture industry decreased but the species mix has changed as well. Less red oak lumber and parts are being used and alternative species such as hard maple are being used.

The near-term outlook is one of continued growth in the demand for most timber products. Timber volumes supplied by the National Forest have increased in recent years. In 2017, valued at about \$178 million, National Forest harvest totaled 2.6 billion board feet, making up 5% of the total U.S. timber harvest. This total was down more than 84% from the peak in 1991.

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# U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

## General Economic Trends

The U.S. economy continues to remain very robust. For the full year of 2017, U.S. real gross domestic product (GDP) growth remained at 2.3%. The real value of goods and services produced in the economy, as measured by GDP adjusted for changes in prices (real GDP), has now grown in each of the past 8 years since 2009. Employment continued to expand in 2017 as the unemployment rate, which has been declining since 2010, fell to a 9 year low in 2017 of 4.4%. Economic activity, as measured by the GDP, rose at an annual rate of 2.3% in 2017 to \$17,092 billion (2009 dollars). This was up from \$16,716 billion (2009 dollars) during 2016. U.S. economic activity as measured by the GDP in all likelihood will become stronger because of the relatively low growth of hourly earnings, which indicates there remains some room in the U.S. job market to support growth. Although job growth has been edging very gradually downward, it remains at a healthy level, showing ongoing positive momentum in the economy. The total count for employees in the civilian labor force has increased gradually during the last 9 years to 153 million in 2017, a record high. Expectations are for the U.S. economy to continue on this healthy track for the short term. Investment in new residential construction has increased annually since 2011, increasing by 90% to \$953 billion in 2017 (U.S. Council of Economic Advisors 2018, p. 19). Because residential construction fell to a record low during the great recession combined with the vast amount of overbuilding of houses during the years leading up to the crisis, the strong investment in residential construction (1.2 million units in 2017) still leaves housing starts well below record level of 2.1 million units established in 2005. One of the leading contributors to economic growth in 2017 was the household sector. In the household or home ownership sector, credit conditions continued to improve as consumer credit outstanding reached 3.8 trillion dollars in 2017, a record high. Purchases of durable goods also rose at a robust pace reaching 1.7 trillion dollars in 2017, another record high. In the business sector, investment in equipment and software posted solid gains in 2017 and global demand for U.S. goods and services was strong. The growth in U.S. exports supported job gains in 2017 as well as the continued expansion of manufacturing output. Conditions in residential real estate markets continued to improve in 2017, with a modest increase toward the end of the year and continued strengthening in demand for new housing.

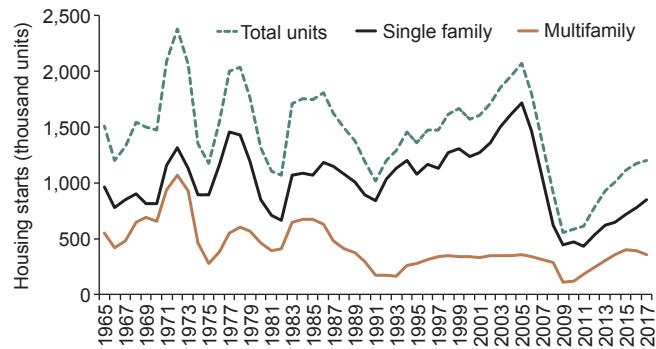


Figure 1. Housing starts by type of unit, 1965–2017.

Pending tariffs on United States exports could result in a downturn in the global economy.

New housing construction, which accounts for more than a third of the U.S. annual consumption of softwood lumber and structural panels and for substantial volumes of other softwood and hardwood products, continued to grow during 2017 (Tables 1 and 2; Fig. 1). Starts of single-family units accounted for the increase; multifamily housing starts decreased during 2017. Single-family housing starts have almost doubled since 2011, increasing drastically by 97.0%. Multifamily housing starts have also increased drastically by 99.0% in that time frame. Housing starts for 2017 were 1.2 million units as sales of new houses grew in 2017 to 616,000 units. Housing starts increased in 2017 but remain well below the historical high in 2005. The new home ownership rate reached 69% in 2004 equaling the all-time high but has since fallen to 60.0% in 2017. Builder's expectations for housing starts in 2017 remained upbeat and were realized because mortgage rates remained at historically low levels. Historically, repair and remodeling was an important determinant and driver of wood product demand. In 2017, both remained well below the historical high set in 2005 for housing starts and 2006 for residential improvements but both have continued a solid growth path during the last 5 years. The National Association of Home Builders (NAHB) Remodeling Market Index (RMI) remained above the expansion threshold, posting a reading of 60 in the fourth quarter of 2017, with home maintenance and repair at 61. The RMI has held at or above the expansion threshold of 50 for five consecutive years, with this being the second time since 2014 the index has reached 60. Although sales of new homes remained below historical levels in 2017, the 616 thousand units sold in 2017 was

the highest level of new homes sold since 2011. Existing home sales were up slightly in 2017 reaching 5,536,000, which was up 29.0% from 2011. This shows that in 2017, the housing industry continued to improve as the state of the U.S. economy continued to improve.

Shipments of manufactured housing increased during 2017 to 94,000 units, which was 13,000 units above the 2016 shipments level.

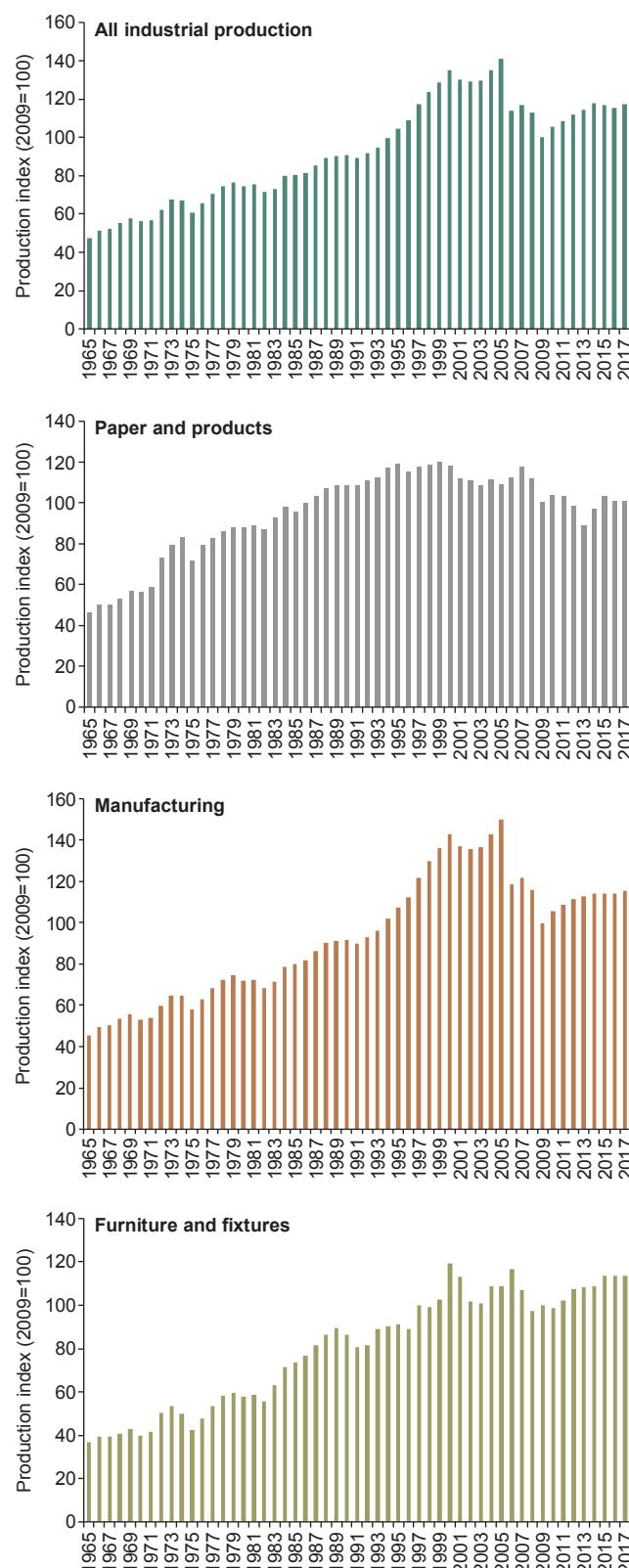
The value of private construction put in place rose to \$953.0 billion (current dollars) in 2017, increasing about \$54.1 billion from 1 year ago. Residential value was \$516 billion, which contained \$165 billion in residential improvements. Gross private domestic investment increased in 2017 for both nonresidential and residential housing units. Spending on new single and multifamily residential structures was \$598 billion (2009 dollars) in 2017 compared with \$470.4 billion for nonresidential structures.

Industrial production, an important demand determinant for pallet lumber, containerboard, and some grades of paper, increased 1.8% in 2017, compared with 2016 (Table 1; Fig. 2). Output of the furniture and fixtures industry, a major market for hardwood lumber, plywood, veneer, particleboard, and hardboard, was flat in 2017. Future increases are likely because of continued growth in the U.S. housing industry. But despite the optimism, the strong U.S. dollar continues to work against the U.S. domestic furniture industry. The industrial production index for paper and products decreased, whereas the manufacturing sector index increased slightly.

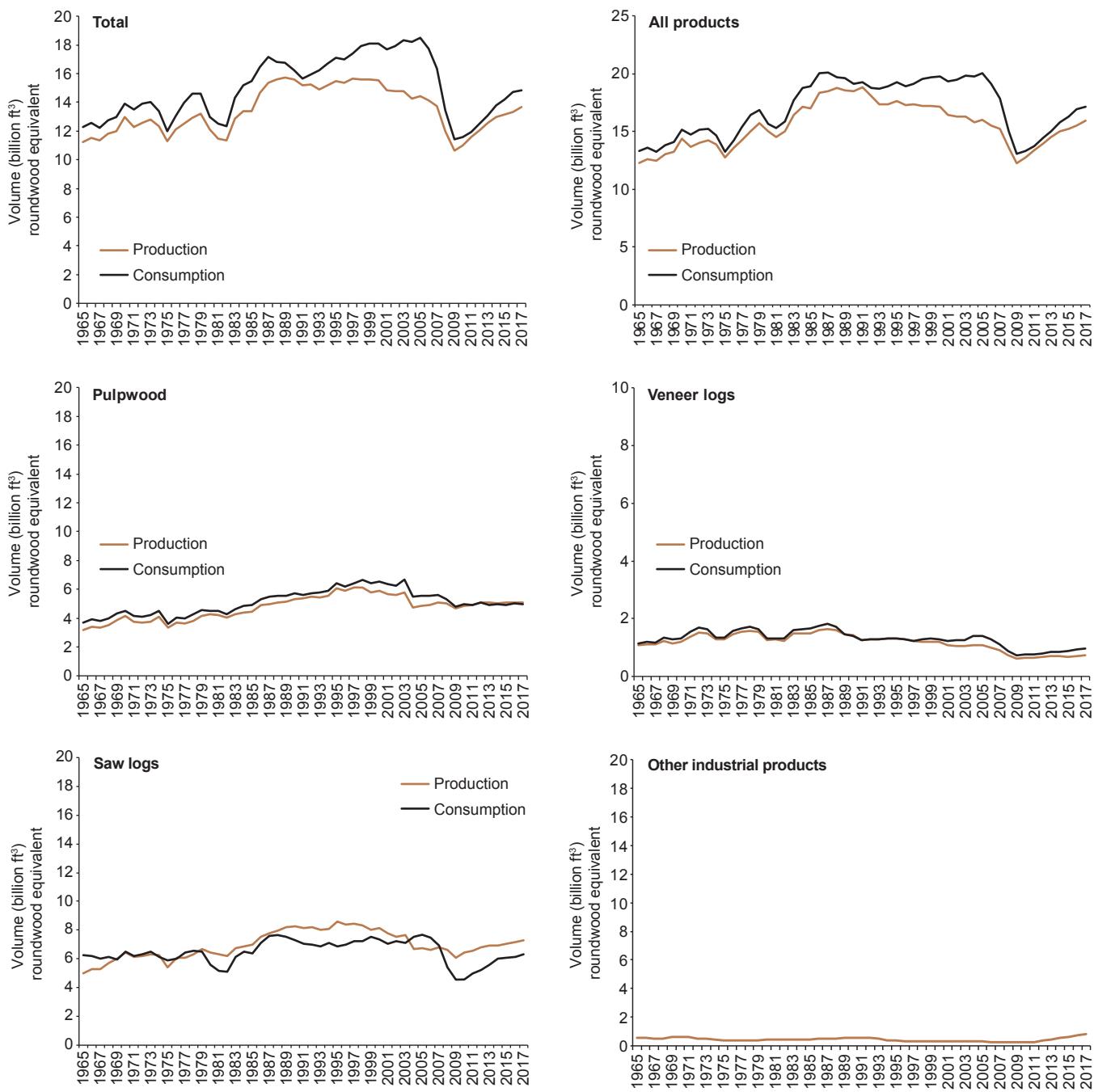
## Timber Production, Prices, Trade, and Consumption

Total roundwood production increased to 15.9 billion ft<sup>3</sup> in 2017, up from the 15.5 billion ft<sup>3</sup> of production from a year earlier (Fig. 3). This marks the eighth straight year of increased production after four straight years of decreased roundwood production since 2005, when roundwood production was 16.0 billion ft<sup>3</sup>. Roundwood has generally been on the decline since the mid1990s. The high point for roundwood harvest was 1991 when total roundwood production was 18.8 billion ft<sup>3</sup>.

Lumber and engineered wood products sectors were significant contributors to current wood products production and consumption because both sectors continued to increase production in 2017. The production of sawlogs used in the domestic manufacture of lumber increased in 2017 to 6.3 billion ft<sup>3</sup>, which was the seventh consecutive year of increased sawlog production. The 6.3 billion ft<sup>3</sup> was down 17.5% from the peak year of 2005, when 7.7 billion ft<sup>3</sup> of sawlogs were produced, but was above sawlog production of the previous year by 3.2%. This represents about 41% of total industrial roundwood production in 2017. Softwood lumber production represented about 47% of softwood



**Figure 2. Economic activity in major industrial timber markets.**

**Figure 3. Production and consumption of timber products.**

roundwood harvest, and hardwood lumber made up 29% of hardwood roundwood harvest in 2017. Pulpwood, which composes about 35% of total industrial roundwood, decreased slightly from a year earlier. Although roundwood pulpwood production has consistently fallen since the late 1990s, the pulpwood share of industrial roundwood production has remained fairly constant. During that time, roundwood used to produce lumber has been volatile (Table 5a).

## Lumber Production, Prices, Trade, and Consumption

### Production

An estimated 42.2 billion board feet (bf) of lumber (softwoods plus hardwoods) was produced in the United States in 2017 (Table 28). Since 1965, lumber production has generally trended upward, except for periods of economic slowdown such as the mid1970s, early 1980s, and

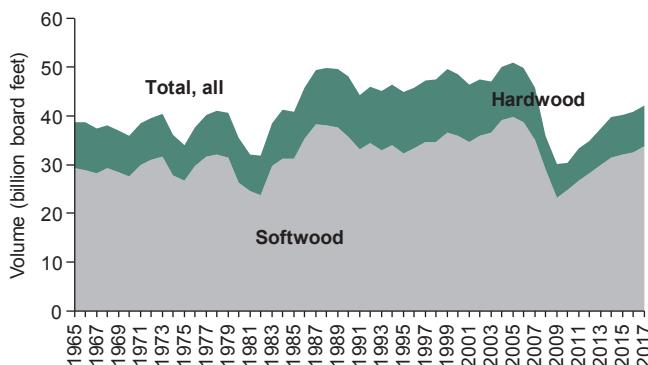


Figure 4. U.S. lumber production by wood type, 1965–2017.

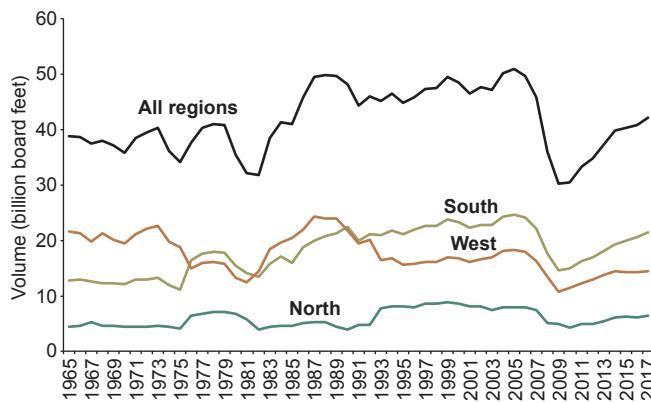


Figure 5. U.S. lumber production by region, 1965–2017.

more recently 2006 to 2010. Many western mills dependent on federal timber were forced to dramatically decrease production or close entirely. This resulted in an overall decline in lumber production, shifts in production to other regions, and increased levels of foreign imports. These declining trends have reversed since 2011 as annual lumber production continues to increase.

Softwood lumber production in 2017 was 33.9 billion bf (Table 28; Fig. 4), 80% of total lumber production. Hardwood lumber production was about 8.3 billion bf. The overall decline in lumber production since 2005 that was almost entirely at the expense of softwood lumber was reversed in 2011 with a trend starting of seven consecutive years of increased production. Softwood lumber production from 2000 to 2005 generally trended toward record production levels, peaking at 39.8 billion bf in 2005 before declining quite severely after 2005 to production levels not seen since the 1950s. But, these numbers have since rebounded. Hardwood lumber production has generally trended downward from the high production levels of the late 1990s before bottoming out in 2010 then experiencing flat production during more recent years.

In 2017, the South was the largest lumber-producing region in the United States at 21.5 billion bf (Table 29; Fig. 5). The West was the second largest region at 14.4 billion bf, followed by the North at 6.4 billion bf.

The West, although the second largest overall producing region, had traditionally been the largest softwood lumber producing region, with nearly 98% (14.1 billion bf) of its total production being softwood species. However, in 2017, softwood lumber production in the South was about 85% of its total production, exceeding the total softwood volume of the West. The North produced 1.6 billion bf softwood lumber in 2017.

Until the 1990s, the West had been the largest lumber-producing region in the United States. From 1966 until 1975, for example, more than half (55%) of all lumber produced in the United States came from the West. Much of this production came from old-growth timber on federally owned lands in the Pacific Coast region (Washington, Oregon, and California). Since the early 1980s, the proportion of lumber coming from the West has slowly decreased to just under half, because of declining levels of timber from public lands and increasing levels of production in the South. In the late 1980s and early 1990s, large areas of federally owned land in the West were removed from harvest. This removal further decreased western harvest. In 1990, the South became the nation's largest lumber-producing region, accounting for 35% of all softwood lumber and 80% of all hardwoods. During the late 1990s, softwood lumber production in the South and West increased. Between 2000 and 2005, softwood lumber production continued to increase in the South and moderated in the West. During this time period, the West ceased being the leading softwood lumber producing region. Even with the overall decline in lumber production in all regions since 2005, the South still maintains its position as the leading softwood lumber producing region.

Total lumber production in the North remained fairly steady from 1965 through the early 1990s at about 4.5 billion bf per year (Table 29; Fig. 5). It then increased rapidly to 8.8 billion bf in 1999. Nearly all of this increase was in hardwood lumber production. However, hardwood lumber production started to decline in 2000 brought on by the decline in the U.S. furniture manufacturing industry, which resulted from increased Chinese and other Asian imports. Also during this time, the shift in fashion trends away from red oak continued. During the past several years, hardwood lumber production has stabilized with a flat production trend even though the state of the U.S. economy is strong coupled with an upturn in the forest products sector.

## Imports and Exports

In 2017, lumber imports to the United States from all countries totaled 16.1 billion bf, down slightly from the previous year (Tables 28 and 31). Also in 2017, exports from the United States to all countries totaled 3.6 billion bf (Tables 28 and 32). The difference, 12.5 billion bf, was net foreign trade and represented lumber consumption in the United States in excess of that which was produced domestically. Net foreign trade represented one-fourth

(24%) of total domestic lumber consumption in 2017. Except for periods of low overall U.S. demand, including the most recent economic downtown, lumber imports to the United States have grown steadily since 1965. Nearly all of the growth was in softwood lumber imports. In 1965, softwood lumber imports totaled 4.9 billion bf. By 2005, softwood lumber imports were 24.7 billion bf, an increase of 19.8 billion bf. In contrast, hardwood lumber imports were 0.3 billion bf in 1965 and 1.1 billion bf in 2005. However, one major exception to this trend was the weakening of economic conditions in the United States between 2008 and 2011, which caused a dramatic reversal in lumber imports. Softwood lumber imports dropped about 64% from 24.7 billion bf in 2005 to 8.9 billion bf in 2009, while hardwood lumber imports dropped from 1.1 billion bf in 2005 to 0.4 billion bf in 2013. Since 2011, new home construction, the historical driver of softwood lumber consumption as a percentage of total lumber use, has been on a slow and steady comeback from the depths of the great recession, and the trend line for the sector is expected to overtake repair and remodeling in the next few years. Lumber consumption in the repair and remodeling sector has outpaced new home construction for eleven consecutive years.

Canada has always been the principal source of lumber imported into the United States (Table 31). In 2013, 94% of all lumber imports were from Canada. Canada is the principal source of both softwood lumber and hardwood lumber imports to the United States. In 2017, nearly 91% of all softwood lumber and 46% of all hardwood lumber imported to the United States were from Canada. The percentage of softwood lumber from nonCanadian sources has generally been increasing in recent years (since 2012). Hardwood imports from Canada as a percentage of total hardwood imports fell fairly steadily from 1950 through the 1970s and again since 2006. Overall, the United States imported nearly 50% of Canadian lumber production in 2017.

Lumber exports grew fairly steadily from 1965 through 1991, reaching a record high of nearly 4.6 billion bf in 1990 (Tables 28 and 32). Since 1990, lumber exports fell to a minimum of 1.8 billion bf in 2009 and have since increased to 2.6 billion bf in 2017. Numerous factors contributed to the decline in lumber exports during the last 30 years. Some of these were decreased softwood sawtimber supplies, particularly from the Pacific Coast, changing economic conditions in the major importing countries, strength of the U.S. dollar in relation to other world currencies, increased levels of exports from other major timber-producing countries, and the 2008 economic weakening in the United States. During the mid1980s and early 1990s, Japan was by far the largest single market for U.S. exported lumber. In 1989, Japan purchased 1.6 billion bf of lumber (Table 32). Since then, exports to Japan have fallen to just one-tenth of their previous level. China is currently the largest

single market for exported lumber, followed closely by Mexico and Canada, which accounted for 19% and 15%, respectively, of all exports.

More than half (62%) of total lumber exports in 1996 were softwood species, 1.8 billion bf (Table 32). In the late 1960s and early 1970s, softwood lumber accounted for about 85% of total lumber exports. Since then, softwood lumber's share of total lumber exports has fallen steadily from around 78% in the 1980s to 41% in 2005. Since 2005, however, as a percentage of total lumber exports, softwood lumber exports experienced an increasing trend and then a decreasing trend and currently sit at 67%. This appears to have been caused by a substantial increase in recent hardwood exports. The most important softwood lumber export markets in 2017 were China, which accounted for about 21% of total softwood lumber exports, Mexico at 19.4%, and Canada at 18.6%. All other countries accounted for the remaining exports. China and Mexico were the two largest markets for exported hardwood lumber from the United States in 2017. China is the fastest growing market for hardwood lumber.

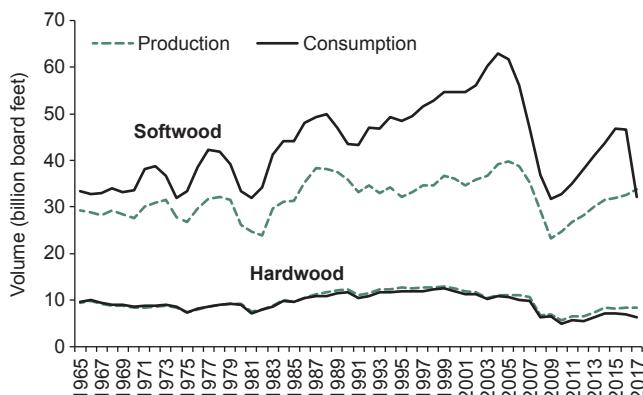
## Consumption

Lumber consumption in the United States in 2017 for all uses totaled 54.7 billion bf, an increase of 17.0 billion bf since 2009, which was the low point of the great recession. Lumber consumption since 2009 has increased in each of the last 8 years. Lumber consumption peaked at 74.5 billion bf in 2005 (Table 28), which was a record high that even exceeded levels in the early 1900s when lumber was the most important raw material used in the United States for construction, manufactured products, and shipping.

Per capita consumption in 2017 was 168 bf, a large departure from the record high of 251 bf in 2005 (Table 28). The decline in per capita consumption continued as a result of the decline in wood products markets until 2011 when per capita consumption increased to 128, the first increase since 2005. This level of consumption is still dramatically below that of the early 1900s when consumption exceeded 500 bf per person.

Overall, about 69.0% of the softwood lumber consumed in 2017 was used for housing, with 30.0% used for the construction of new units and 39.0% of consumption for the upkeep and improvement of existing units. New nonresidential construction accounted for about 11.1%. Lumber consumption used for shipping (pallets, containers, and dunnage) accounted for 13.8%. The remaining 6.1% was for all other uses. The “all other” category includes an unknown amount of lumber used for other construction purposes such as nonresidential upkeep and improvements (WWPA 2018).

In 2017, 47.9 billion bf of the 54.7 billion bf of lumber consumed in the United States was softwood species, or about 87.6% (Table 28; Fig. 6). Slight annual variations



**Figure 6. Lumber production and consumption by wood type, 1965–2017.**

in the percentage of softwood and hardwood lumber used are common and are a result of differing levels of activity in the various end use markets and variations in species consumption among them. About 98% of the domestic lumber production used in new housing in 2017 was estimated to have been softwood species. The increase in percentage of softwood lumber used in housing was largely caused by a decline in hardwood flooring and rapid increase in house size that occurred in the 1990s, which required larger amounts of softwood dimension lumber for framing. Increased use of engineered wood products in recent years, substituting for dimension lumber in both residential and nonresidential construction, has tended to decrease the softwood percentage. Even with the variations caused by differences in end use markets, softwood lumber consumption as a percentage of total lumber consumption has remained around 86% since the 1960s.

## Prices

Overall, softwood lumber prices rebounded in 2017, exceeding the record high set during 2004. The actual producer price index for softwood lumber was 158.1 in 2017 (2009 = 100), up from 148.4 in 2004 (Table 35; Fig. 7). Historically, the producer price index for softwood lumber rose rapidly between 1965 and 1979, from 20.4 to 83.5. This represented an average increase of about 10.0% per year. During the early years of the 1980s, a mild recession depressed lumber prices. It wasn't until late in the decade that prices again reached record levels. On average, lumber prices increased just 2.0% per year during the 1980s. The price index again began to move upward in the early 1990s caused in part by the effect on the sawmill industry from timber harvest reductions in the West. Since 1994, the softwood lumber producer price index has fluctuated from a relative high of 140.1 in 1994 to a low of 100 in 2009 and then to 158.1 in 2017. Overall, the softwood lumber producer price index increased at a rate of about 5.0% per year between 1965 and 1999, then increased approximately 1.3% per year from 1999 to 2005, then decreased at a rate of 0.5% per year between 2005 and 2017. There are a number

of reasons why lumber prices have risen, including a rail car shortage in Canada, but the primary factor is the 21% effective tariff rate placed on Canadian softwood lumber.

Hardwood lumber prices, as measured by the hardwood lumber producer price index, have historically been much less volatile than softwood lumber. In 2017, the producer price index for hardwood lumber was 128.4, which was 12.9 points below the record high established in 2014 (Table 35; Fig. 8). Historically, hardwood lumber prices have increased at a rate of about 3.6% per year.

The relative producer price index for a given commodity measures the change in its price relative to all other commodities and is calculated by dividing its producer price index by that for all commodities. If the relative price index is less than 100, then the given commodity is relatively less expensive than other commodities. If it is greater than 100, then it is relatively more expensive.

In 2017, the relative price of softwood lumber compared with its 2009 price was 158.1, up 9.7 points from 2004 (Table 35; Fig. 7). Since 1965, relative softwood lumber prices ranged from a low of 20.4 to a high of 158.1 in 2017. The relative hardwood lumber price index in 2017 was 128.4, down from 141.3 in 2014 (Table 35; Fig. 8). Long-term hardwood price indexes have been more stable than those for softwood lumber, ranging from a low of 21.7 in 1965 to a high of 141.3 in 2004.

Engineered wood products such as glulam, I-joists, and laminated veneer lumber (LVL) are forecast to increase steadily. Glulam production during 2017 was 271.3 million bf, up 5.6% from the previous year but down from the record high of 491 million bf in 2005 (Table 34; Fig. 9). A little more than one-half of U.S. glulam goes to new residential construction and remodeling uses. Nonresidential construction consumes the next largest proportion of glulam production.

During 2017, LVL production was 73 million ft<sup>3</sup>, which was up 12.3% from one year earlier but down from the 2005 record high of 91 million ft<sup>3</sup>, while I-joist production was 518.0 million linear feet, up 7.5% from the previous year but down from the record high of 1,282 million linear feet in 2004. The volume of LVL production used for I-joist flanges has kept pace with I-joist production in recent years. In 2017, 90% of all I-joists were used in new residential construction. Approximately 3% were used in remodeling and 7% in nonresidential construction. A small volume of I-joists was exported to Japan.

New hybrid products such as wood or natural fiber–plastic composites continue to come on the market and now compete directly with traditional wood products. These new products are being used for decking, siding, roofing, and millwork. Cross-laminated timber (CLT) is another new engineered product with the possibility of hybrid uses. CLT consists of layers of dimension lumber (typically

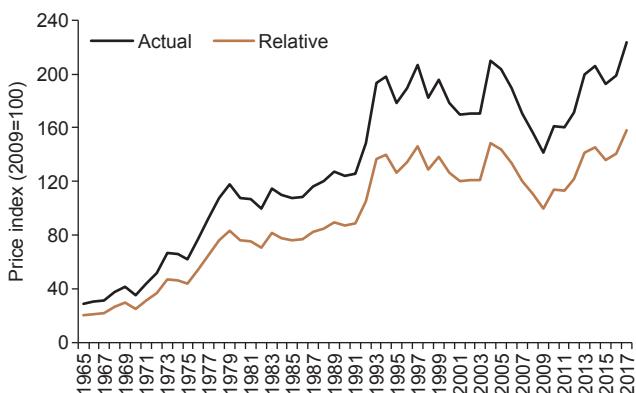


Figure 7. Price indexes for softwood lumber, 1965–2017.

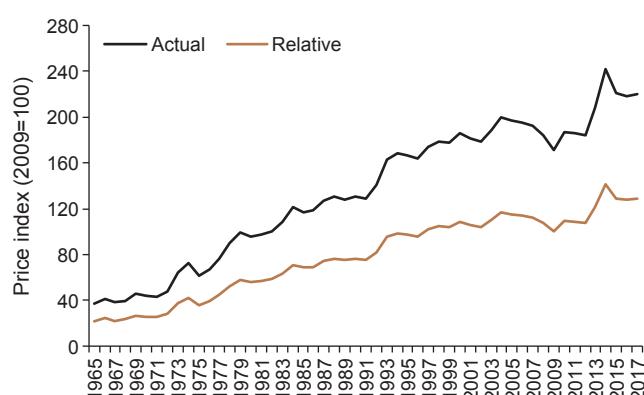


Figure 8. Price indexes for hardwood lumber, 1965–2017.

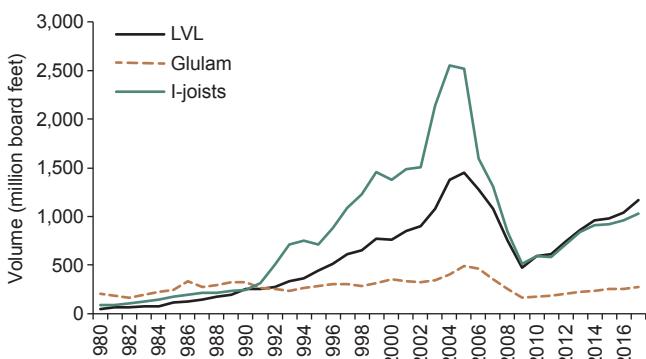


Figure 9. Production of glulam, I-joists, and laminated veneer lumber, 1965–2017.

three, five, or seven) oriented at right angles to one another and then glued to form structural panels with exceptional strength, dimensional stability, and rigidity. Also trending are the hybrid uses of CLT and concrete, referred to as CLT composite concrete. Growing interest in CLT among construction professionals should encourage the expanded use of CLT panels. Production data for these new products are not available yet.

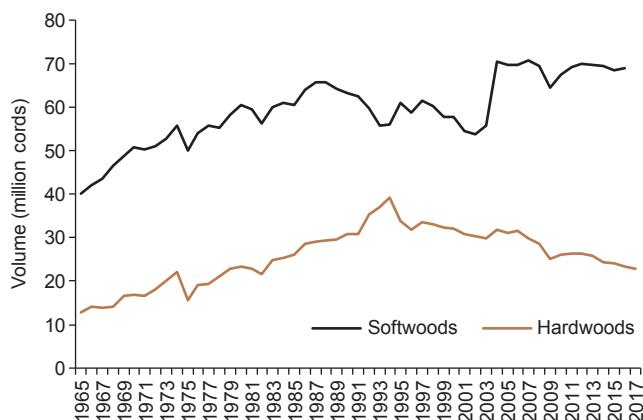
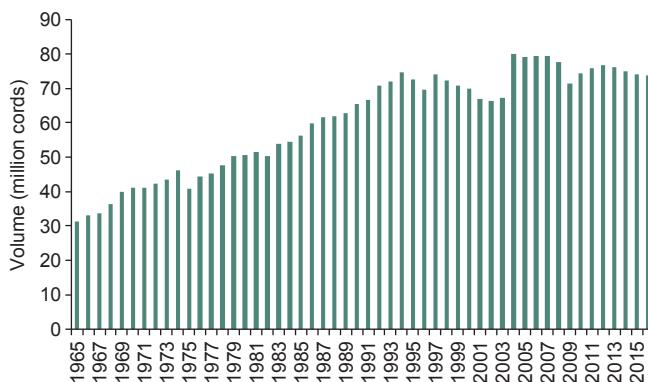


Figure 10. Pulpwood production by wood type, 1965–2017.

## Wood Pulp and Pulpwood Production, Prices, Trade, and Consumption

Total wood pulp production in U.S. mills in 2017 is estimated to be about 52.7 million tons based on data published by the American Forest & Paper Association (AF&PA) (Table 49). This is the same as the level from the previous year but 21.5% below the previous high produced in 1995. Most U.S. paper companies have experienced poor financial returns for nearly a decade. With the exception of a short-lived boom in 1995, the 1990s were a decade of low profitability, and the 2000s were the decade of consolidations and plant closures. Plagued by overcapacity and low commodity prices, the industry failed to earn its cost of capital throughout most of the 1990s. The negative growth during 2001 and 2002 was the first time that capacity had ever declined for two consecutive years during the 40 years that AF&PA has been compiling capacity data. Extending the downward trend that began in 2001, U.S. paper and paperboard capacity declined 0.8% in 2005 to 99.3 million tons. Paper and paperboard capacity declined 4.4% between 2000 and 2005. The AF&PA's 58th annual capacity survey (AF&PA 2018a) revealed that paper and paperboard capacity in the United States declined 0.3% in 2017 to a level of 84.3 million short tons after declining 1.6% in 2016 and 0.3% in 2015.

On the basis of these volumes, related data on pulpwood production published by the AF&PA, which includes both roundwood and chips, shows an estimated 90.9 million cords in 2017, about 1.2% below production levels of the previous year (Table 24; Fig. 10). This volume is about 9.7% below 2007 levels and below the record high level established in 1994. Pulpwood production has seen its fair share of ups and downs during the past decade. There was a downward trend that began in 2008 and continued into 2017, but it was interrupted by a brief increase in production between 2010 and 2012 before resuming the downward trend. This lengthy decline in pulpwood production

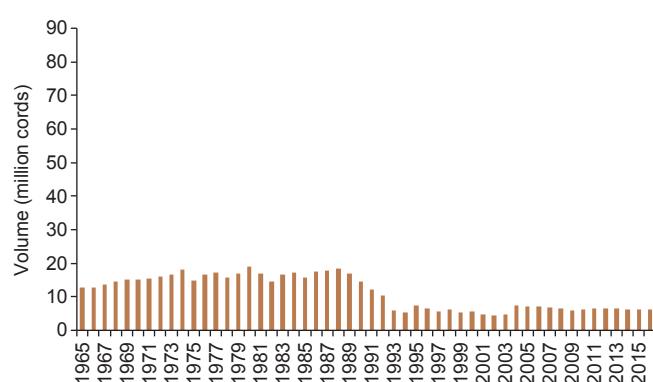


**Figure 11. Pulpwood production in the U.S. South, 1965–2017.**

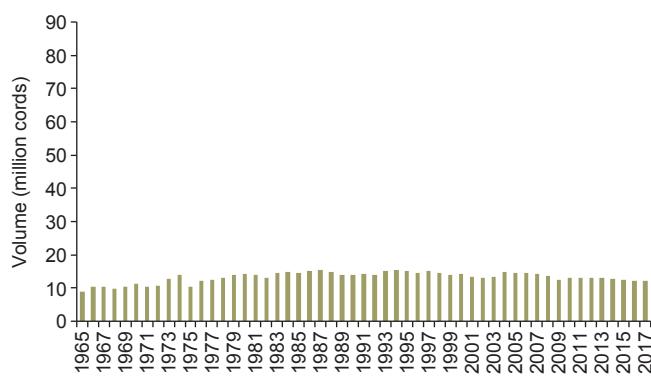
coincided with the decline in wood pulp production. Mill shutdowns had a strong impact with nearly 10 million tons of paper and paperboard capacity removed between 2000 and 2010. The decline continued into 2017 with production falling to 83 million tons. The slowdown in pulpwood production reversed in 2003 with the industry experiencing its second straight year of increased pulpwood production in 2004 (Table 24). Since 2004, however, pulpwood production entered a period of volatility with an up and down production trend, but mostly down, that continued into 2017. Softwood roundwood and chip production in 2017 was 68 million cords, down 1.3% from 2016 (Table 25). In 2017, all three of the major producing regions showed slight decreases in output. In the West, production of softwood in 2017 was at 4.8 million cords. Softwood output in the North held steady at 7.0 million cords. Southern softwood roundwood production was relatively unchanged in 2017 at 56.2 million cords. About 75% of U.S. softwood roundwood pulpwood produced came from southern forests.

Output of hardwood roundwood and chips in 2017 was 22.9 million cords, relatively unchanged from the previous year. Although the output of hardwood pulpwood and chips has gradually declined during the previous 4 years, the proportion of total round pulpwood and chips from hardwood species has also slowly decreased. This continued the downward trend that started in 1994 and continued into 2017. Through the 1960s and early 1970s, hardwoods became an increasingly important source of round pulpwood, a reflection of changes in pulping technology, the types of pulp produced, and the relative price of different species. In 2017, hardwood pulpwood comprised 25% of total U.S. pulpwood production. This was unchanged from 25% of pulpwood production the previous year. Further erosion in pulpwood demand is likely as capacity to produce paper and paperboard continues a downward trend that began in 2001 caused by continued increased demand for electronic media.

AF&PA data on pulpwood consumption in wood pulp production indicate that pulpwood production in the South in 2017 was 72.7 million cords, down from the



**Figure 12. Pulpwood production in the U.S. West, 1965–2017.**



**Figure 13. Pulpwood production in the U.S. North, 1965–2017.**

high production year in 2004 when 80.2 million cords of pulpwood was produced (Table 25; Fig. 11).

The South has accounted for more than 65% of total U.S. pulpwood production in the past 30 years. In 2017, the South accounted for 80%. All of the 14 states in the South have contributed to the previously mentioned decline in pulpwood production. However, this decrease has been greatest in Georgia and Alabama, which together accounted for a third of the pulpwood output in this region. This is consistent with the location of the industry within the area. Of the total number of pulp mills in the South, some 30% are located in Alabama and Georgia.

About 77% of the 72.7 million cords of round pulpwood harvested in the South in 2017 was softwood. This proportion has been gradually increasing during the two decades prior to 2017, and the trend continued into 2017. Southern softwood roundwood output increased in 2004 and has been fairly consistent since then, while hardwoods have slowly declined. Between 2004 and 2017, for example, hardwood roundwood production declined by an average of 0.05 million cords per year while softwood roundwood decreased on average by less than 0.1 million cords per year since 2003.

Receipts of domestically produced pulpwood in the West leveled off after declining throughout the 1990s but began to decline again after 2005. Softwood production in the West

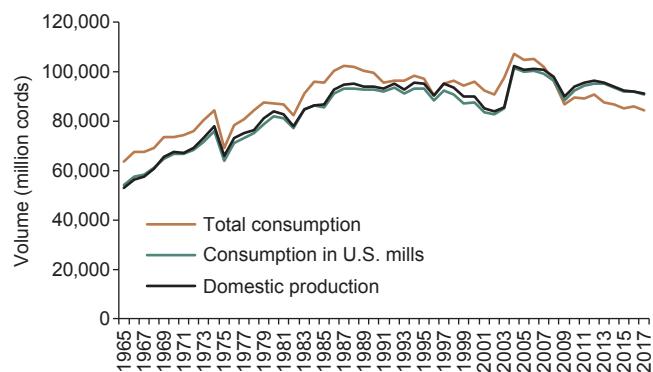
has gradually fallen since 1988. Softwood production was 5.0 million cords in 2013, below 2004 levels of 5.4 million cords and down from 17.4 million cords of production in 1988 (Table 25; Fig. 12). Chips accounted for roughly the same percentage of pulpwood production in 2013 as it did in 2005, declining slightly during the last 3 years. Of the total production of pulpwood, roundwood, and chips, 73% was from softwood species. Production of hardwood roundwood has also held steady during the last 3 years.

Data on domestically produced mill receipts indicate that pulpwood production in the North, roundwood plus chips, was 12.1 million cords in 2017, below the 14.6 million cords that were produced in 2006 (Table 25; Fig. 13). About 42% of the total was from hardwood species, 5% below the proportion in 2006. About 72% of the total pulpwood output in the North was from roundwood, about equal to the proportion for the South in 2013. The use of chip residues in the North has been declining steadily as in other U.S. regions.

Stumpage prices began to rebound in lower Louisiana and other areas in the South as the recovery from the economic downturn that began in 2008 continued (RISI 2017). Also, the increase in prices reflected the contraction in both U.S. softwood and hardwood demand as more than a quarter of the country's 186 pulp mills shut down after 1996. With stronger demand present in the market, pulpwood stumpage prices during 2017 moved higher than in 2005. Pine and hardwood pulpwood prices peaked in the South, the nation's largest fiber market, during 1998 when the stumpage price for Louisiana pine was \$37 per cord (2009 dollars) before falling to \$23 per cord in 2017 (Table 26). Delivered pulpwood price for Southern Pine was \$19 per cord in 2017, well below the record high in 1998 (Table 27).

Pulpwood prices vary a great deal among species and regions. In general, prices were historically highest for softwoods, especially the long fiber northern species such as spruce and fir. In some areas in response to changes in pulping technology and pulpwood availability and quality, the relationship between hardwood and softwood prices has changed. For example, in Louisiana, the softwood pulpwood price per cord stayed at a higher level than hardwoods during the 1990s for every year other than 1995 when the price of hardwood pulpwood exceeded the softwood price. Since 2001, the hardwood pulpwood price in Louisiana has generally exceeded that of the softwood pulpwood.

Pulpwood stumpage prices for most species followed the same trends as pulpwood prices and slowed during 1999 (Tables 26 and 27). In Louisiana, for example, Southern Pine pulpwood stumpage decreased from \$28.56 (2009 dollars) in 2007 to \$22.58 (2009 dollars) in 2017. In contrast to softwoods, Louisiana hardwood stumpage prices increased from 2007 to 2010, rising 38% compared with a 17.5% increase from 2010 to 2013 for Southern Pine. Pulpwood and pulpwood stumpage prices have



**Figure 14. Total pulpwood production and consumption, 1965–2017.**

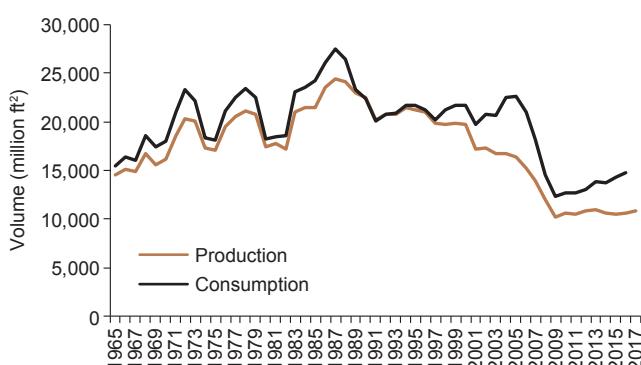
been quite volatile during the last 10 years. Most of the volatility has been caused by falling capacity and industry restructuring as well as the prior recession, resulting in lowered demand. The U.S. pulp and paper industry has brought capital spending to levels well under depreciation and amortization, effectively pulling capital out of the industry. U.S. companies have also continued to consolidate their operations in response to increased global competition, reduced demand, and poor financial returns. The result has been a closing of marginal mills, further reducing the capacity base.

Apparent pulpwood consumption in U.S. mills in 2017 was an estimated 90.9 million cords (Table 24; Fig. 14). This was a decrease from the 95.0 million cords of consumption in 2012. In total, about 90.9 million cords of pulpwood domestic production plus net imports were required to meet the relatively flat demand for paper, paperboard, and pulp products in 2017. Wood requirements for exports amounted to an additional 0.06 million cords.

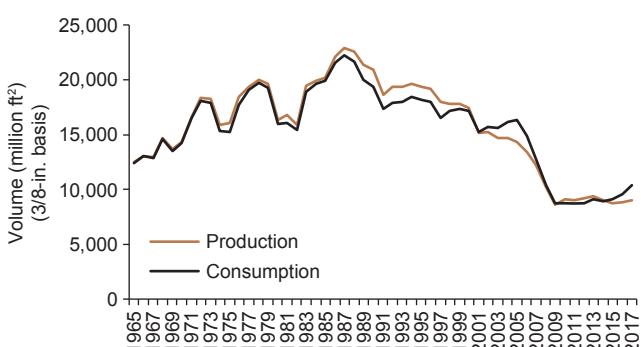
## Plywood and Veneer Log Production, Prices, Trade, and Consumption

Softwood plywood production in 2017 was estimated at 9.0 billion square feet (3/8-in. basis) based on data published by APA – The Engineered Wood Association (Table 37; Figs. 15 and 16). This is slightly above production of the previous year. The rise in production during 2017 was the second consecutive year of production increases. This was the result of the wood-using sector continuing to recover from the weakened state caused by the housing recession that began in 2008. OSB continued to increase its share of the market once dominated by plywood. For example, between 1994 and 2017, softwood plywood production declined by 54%.

Historically, production of softwood plywood was concentrated in the West, chiefly in the Pacific Coast states of Washington, Oregon, and California. However, these three states during 2017 accounted for 29% of



**Figure 15. Total plywood production and consumption, 1965–2017.**



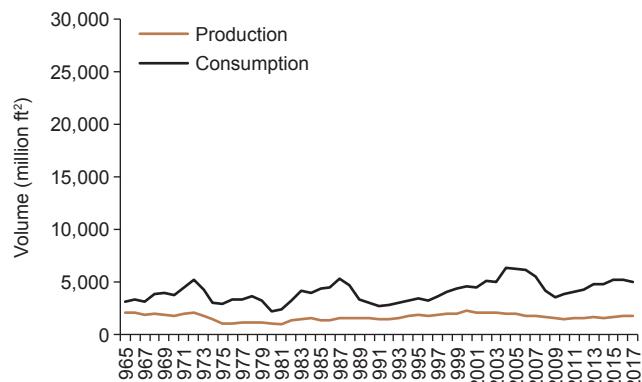
**Figure 16. Softwood plywood production and consumption, 1965–2017.**

plywood production. In the years since the first plywood plant began production in the South, production in that region grew to 65% of plywood production before falling to 62% of production in 2017. For example, during the 10 years from 2007 to 2017, production in the South has increased to 5.6 billion ft<sup>2</sup> (3/8-in. basis) while falling to 2.6 million ft<sup>2</sup> in the West. Although the volume produced was down somewhat during the last 3 years in the South, the percentage of total U.S. production from southern plants continued to increase.

About two-thirds of the softwood plywood manufactured in 2017 was from Southern Pine.

In 2017, hardwood plywood production was similar to the previous year at an estimated 1.8 billion ft<sup>2</sup> (3/8-in. basis) (Table 37; Fig. 17). This volume was the highest since 2007, which continues the recent trend of small annual increases during the previous 3 years. Weak demand from the furniture, cabinetry, and fixtures sector was the main factor fueling the percentage decline in production from 2007.

Stock hardwood plywood accounts for slightly more than half of all the hardwood plywood produced. Of this amount, eastern producers, with their proximity to the hardwood forest resource, produce 60% of hardwood plywood, while western producers account for 38% of production, with the Great Lakes Region making up the remainder.



**Figure 17. Hardwood plywood production and consumption, 1965–2017.**

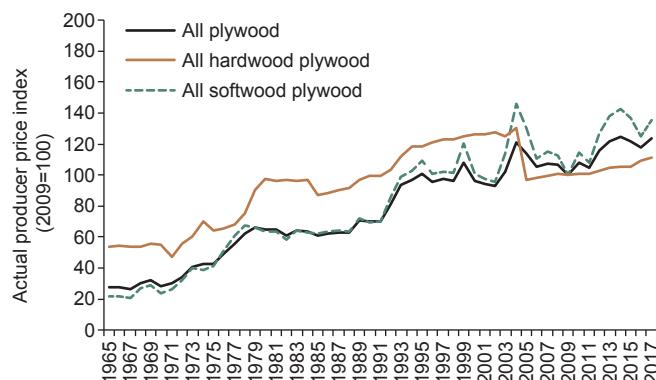
Hardwood plywood producers use a wide range of species for the face veneers of their products. Red oak remains the most popular species at 35% of the market, followed by birch at 29%, and maple at 17%. The cores used in the hardwood plywood industry vary from veneer plies at 63% of the market to MDF cores at 16%. The use of MDF and particleboard cores has increased steadily since 1991.

Softwood plywood prices as measured by the actual producer price index increased in 2017 up from a brief downturn of the previous year. This continued the trend of price increases after declining since the historical high was reached in 2004 of 146.0 (Table 42; Fig. 18). The relative softwood plywood price index in 2017 was 119.4 (Table 42; Fig. 19). This was above the level of the previous year.

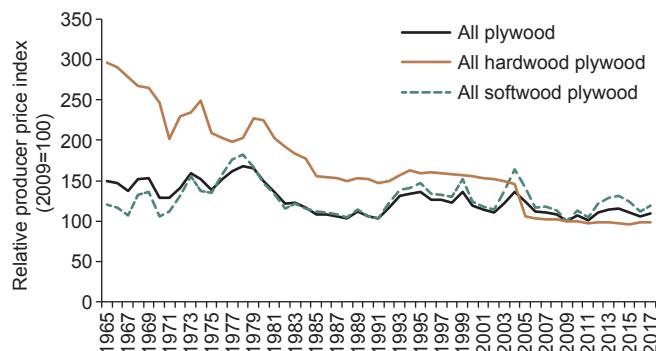
Hardwood plywood prices trended slowly upward from 1999 until 2004 when they dropped. Then they began a period of stability, which was below the 2004 level, and this stable trend has continued into 2013 (Table 42; Figs. 18 and 19). Since 2013, the trend has been a small increasing one. The actual hardwood plywood price as indicated by the actual producer price index for 2017 was 111.3 (2009 = 100), which was below the 130.4 level registered in 2004 but slightly above the previous year levels. The relative index registered a slight decrease for 2017 diverging with the increase in the actual producer price index.

Imports of softwood plywood, about 2.0 billion ft<sup>2</sup> (3/8-in. basis) in 2017, increased 43% from the previous year (Table 37). Imports of softwood plywood were small relative to overall U.S. plywood consumption. Exports of softwood plywood were estimated at about 656 million ft<sup>2</sup> in 2017, which was 7.0% above exports in 2016. After increasing since 2006, softwood plywood exports amounted to 7.0% of softwood plywood production in 2017.

Hardwood plywood imports in 2017 were 3.3 billion ft<sup>2</sup> (3/8-in. basis), 5.8% below the previous year. The 4.6 billion ft<sup>2</sup> level in 2004 was the highest level of imports since 1987 when 3.8 billion ft<sup>2</sup> were imported. The 5-year downward trend ended in 2009, and slow recovery in



**Figure 18. Actual producer price indexes for plywood, 1965–2017.**



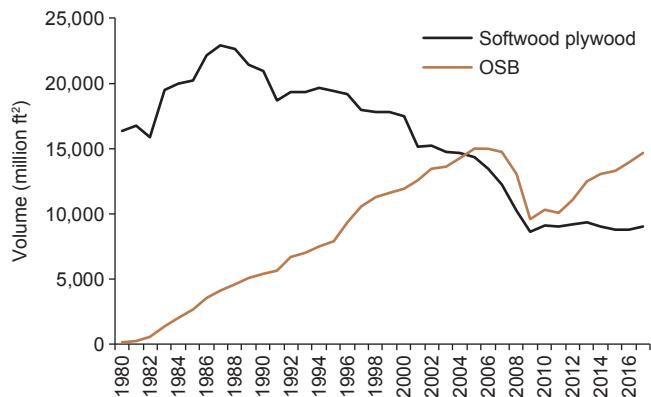
**Figure 19. Relative producer price indexes for plywood, 1965–2017.**

hardwood plywood imports echoed the trend observed in softwood plywood imports.

Softwood veneer imports were an estimated 2.2 billion ft<sup>2</sup> surface measure in 2017 (Table 40). This was a 17.1% increase from the volume of imports compared with the previous year, composing about 71% of total veneer imports. Softwood veneer exports increased to 241.7 million ft<sup>2</sup> surface measure in 2017. This was an increase of 50% compared with the previous year.

This trend changed during the past decade, with China and the Russian Federation becoming major sources of hardwood plywood imports. Asia is still the largest source of U.S. hardwood plywood imports, accounting for 67% of all hardwood plywood imported to the United States in 2017 (Table 39). Since 2003, China has become the largest single country source of U.S. hardwood plywood imports with 45% of total U.S. imports and 67% of all Asian imports to the United States.

Imports of hardwood veneer, used chiefly in the manufacture of hardwood plywood in U.S. mills, totaled 895.3 million ft<sup>2</sup> (surface measure) in 2017 (Table 40). This was 4.2% above 2016 and 68.0% below the peak import year of 1972. Since 1995, imports of hardwood veneer fluctuated each year through 2017. Hardwood plywood exports in 2017 totaled 203 million ft<sup>2</sup> (3/8-in. basis)



**Figure 20. Softwood plywood and oriented strandboard (OSB) consumption, 1980–2017.**

(Table 37). This was 26% above 2016 levels of hardwood plywood exports. The increase in exports represents a slight increase in demand from the Russian and Chinese markets. Canada, China, Indonesia, and the Russian Federation are the top four markets, representing nearly 79.0% of U.S. exports of these products (Table 40). Hardwood veneer exports were an estimated 2.0 billion ft<sup>2</sup> (surface measure) in 2017, slightly below 2016.

Consumption of softwood plywood in 2017 was an estimated 10.3 billion ft<sup>2</sup> (3/8-in. basis) (Table 37; Fig. 20). This was 53% below the record consumption in 1987 of 22.2 billion ft<sup>2</sup> (3/8-in. basis) and represented the third consecutive year that softwood plywood consumption increased since a peak. The rise in consumption in 2017 occurred as OSB continued to erode softwood plywood market share. Since 1992 when OSB was certified to perform as well as softwood plywood, OSB has been rapidly eroding the market share of softwood plywood. This certification allowed OSB to compete directly for the same markets while offering the consumer a lower cost product. However, certain applications are still dominated by softwood plywood, such as underlayment for floors.

In the United States, there are 48 plywood-producing mills and 37 OSB mills (APA – The Engineered Wood Association 2018b). Nearly 62% of all grades of softwood plywood are produced in the South. The West, the traditional producer of softwood plywood, especially Douglas Fir plywood, is slowly adapting to serving niche markets because of the decreased timber supply from public lands.

Although OSB has increased its share in the plywood market previously dominated by softwood, a strengthening residential construction market can explain some of the consumption increases for softwood plywood during the previous 3 years and into 2017. Also important are nonresidential construction, manufacturing, maintenance, repair, and remodeling. The large proportion of single-family houses, which use more plywood per unit than

multipamily structures, also contributed to the overall increase. These factors suggest that future changes in demand for softwood plywood will probably be closely related to changes in the volumes of residential construction and OSB production.

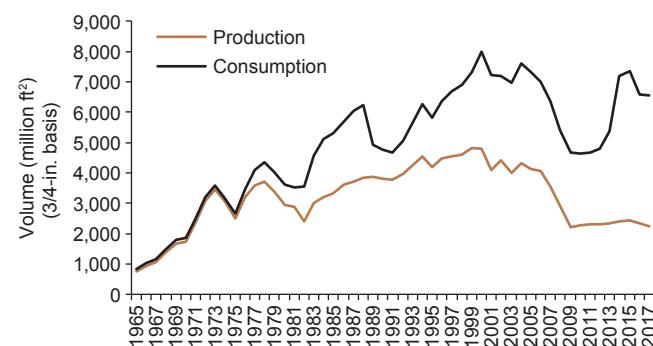
Apparent consumption of hardwood plywood fell 7.0% in 2017 to an estimated 4.9 billion ft<sup>2</sup> (3/8-in. basis) (Table 37; Fig. 16). This was 256 million ft<sup>2</sup> less than in 2016 and represented the second consecutive year of a declining trend since 2015. The decrease in hardwood plywood consumption in 2017, which coincided with an increase in production, in part reflected the stronger U.S. export market, an important market for hardwood plywood for wall paneling, kitchen cabinets, and door skins. Mobile home output also increased in 2017, contributing to the increase in production.

In 2017, 68% of the hardwood plywood consumed in the United States was supplied by imports (Table 37). This has been the trend for the last 15 years and into 2017 as hardwood plywood imports consistently account for at least 60% of hardwood plywood consumption.

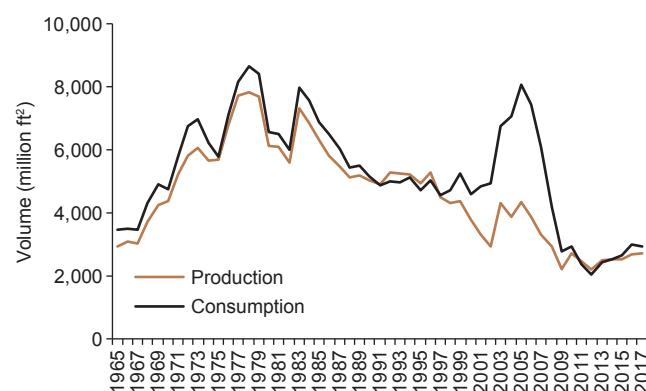
Total softwood log exports remained relatively unchanged during 2017 from the previous year (Table 18). Softwood log exports from the western United States continued to decline as Douglas Fir log exports fell 3.9% in 2017 compared with 2016, well below the record high level in 1988. China continued as the largest importer of logs from the United States in 2017, receiving 54% of U.S. softwood log exports. Canada was a close second, importing 20.4% from the United States, with Japan being a close third (Table 19). During 2017, log imports from Canada increased as Canada remained the principal exporter of softwood logs to the United States. Softwood log imports historically accounted for more than 85% of all log imports but fell to 45% of imports in 2017 (Table 16). In 2017, softwood log imports to the United States fell 12.4%.

## Particleboard, Hardboard, and Insulation Board Production, Prices, Trade, and Consumption

According to estimates of the Composite Panel Association, production of particleboard in 2017 totaled 2.3 billion ft<sup>2</sup> (3/4-in. basis), unchanged from the previous year and more than 50% below the peak year in 1999 when 4.8 billion ft<sup>2</sup> were produced (Table 53; Fig. 21). Particleboard is a generic term for a panel primarily composed of cellulose materials (usually wood), generally in the form of discrete pieces or particles. The cellulose materials are combined with a synthetic resin or another bonding system. Because of its uniformity, flatness, and dimensional stability, particleboard is used primarily for floor underlayment, kitchen counter underlayment, furniture components, and cabinet components.



**Figure 21. Particleboard production and consumption, 1965–2017.**



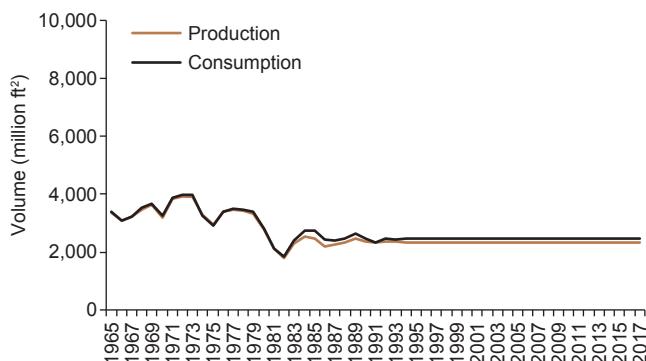
**Figure 22. Hardboard production and consumption, 1965–2017.**

Foreign trade in particleboard was insignificant before the mid1960s and very small through the early 1970s; however, both imports and exports experienced a period of growth during the 1980s and 1990s and have now achieved historical levels. In 2017, exports decreased by 11.2% to an estimated 398 million ft<sup>2</sup> (3/4-in. basis). Imports of particleboard were relatively unchanged from a year ago but were more than double the 2009 import level.

Apparent consumption of particleboard slightly decreased less than 1.0% during 2017 compared with 2016 and had been exhibiting an increasing trend since 2010 until 2016 and 2017.

Production of MDF in 2017 was 1.7 billion ft<sup>2</sup> (3/4-in. basis). This is up slightly from the 1.4 billion ft<sup>2</sup> of production in 2010 but 10.3% below record high in 2007. The major market for MDF at the present time is furniture and cabinetry applications because of its smoothness, dimensional stability, paintability, and the sharp lines that are left after a decorative cut is made on the panel.

Hardboard production in 2017 was estimated to be 2.7 billion ft<sup>2</sup> (1/8-in. basis) (Table 56; Fig. 22). This was unchanged from the previous year and well below the high in 1978. Hardboard production has been trending downward since 1978 when it was 7.8 billion ft<sup>2</sup>.



**Figure 23. Insulation board production and consumption, 1965–2017.**

Imports of hardboard in 2017 amounted to 928 million ft<sup>2</sup>, well below 2006 and continuing the downward trend of hardboard imports that started in 2007. Previous to 2007, hardboard imports had trended upward since 1993. Imports accounted for 57% of total U.S. hardboard consumption in 2008. Exports of hardboard, after a short-lived growth period between 2004 and 2006, declined further until 2016 with an increase in 2017. Exports of hardboard, although declining, still account for 25% of total production.

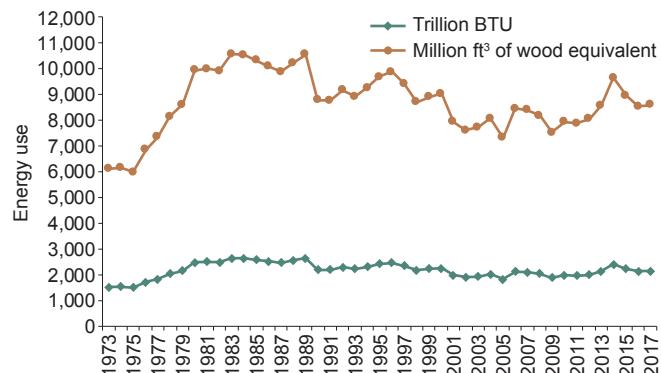
Consumption of hardboard in 2017 was 2.9 billion ft<sup>2</sup>, 52.0% below 2007. This decrease in consumption is partly a reflection of a weakened housing sector. Hardboard is used primarily in the construction industry for exterior siding in new residential construction. In 2017, about one-fourth of all hardboard consumed was for residential exterior siding.

Production of insulation board in 2017 was about 2.3 billion ft<sup>2</sup> (1/2-in. basis) or 857,000 tons (Tables 54 and 55; Fig. 23). Imports and exports of insulation board were relatively small, amounting to 112,000 and 62,000 tons, respectively.

Production and trade of insulation board has been very flat since 1993. The long-term outlook is one of no growth. Further developments of structural grades of particleboard at competitive prices could further accelerate particleboard demand for sheathing and other construction uses. MDF should also continue to provide increasing competition for the traditional board uses.

## Miscellaneous Timber Products Production, Prices, Trade, and Consumption

Production of miscellaneous industrial roundwood products, which includes cooperage logs, poles and piling, fence posts, mine timbers, and an assortment of other products such as hewn ties and box bolts, was estimated at 822 million ft<sup>3</sup> in 2017. This volume has been increasing since 2007 (Table 5a).



**Figure 24. Wood energy use in the United States, 1973–2017.**

In 2017, wood energy use increased slightly from the previous year. Wood energy provided 2.1 quadrillion Btu of energy out of a total 99.9 quad consumed in the United States. This was equivalent to about 8.6 billion ft<sup>3</sup> of wood (Table 60). Sixty-nine percent was in industrial use, mostly in the form of wood residue and black liquor at pulp and paper mills. The remainder was for residential use (16%), electric utilities (12%), and commercial buildings (4%). Total wood energy use has declined about 19% from a high of 2.6 quadrillion Btu in 1983 (Fig. 24). The decline was led by declines in industrial and residential use. Electric utility use has increased fairly steadily since the early 1990s.

Production of round fuelwood in 2017 was estimated at 2.3 billion ft<sup>3</sup>, up slightly from 2016 (Table 5a). Fuelwood consumption dropped sharply in the first five decades of the past century because of the substitution of oil, gas, coal, and electricity in home cooking, heating, and industrial uses. In recent years, however, substantial markets have developed for wood pellets. Pellet fuel is a renewable, clean-burning heating alternative used in approximately 1 million homes in the United States. The estimated pellet industry capacity in 2017 was 12.0 million tons (FutureMetrics 2018).

## Criteria and Indicators of Sustainable Forest Management

The Montreal criteria and indicators (C&I) of sustainable forest management include 7 criteria and 64 indicators that measure the diverse sets of values that society places on forest resources (Robertson and others 2011). The support and development of the C&I for the United States reflects the evolution of forest policies and priorities in forest management among the diverse stewards of U.S. forest resources. Six of the 20 indicators under Criterion 6 (maintenance and enhancement of long-term multiple socioeconomic benefits to meet the needs of societies) assess the production and consumption of forest products. A subset of four of the six production and consumption indicators parallel and complement the standard measures in this report. These indicators are as follows:

- Value and volume of wood and wood products production, including primary and secondary processing (Indicator 25)
- Total and per capita consumption of wood and wood products in roundwood equivalents (Indicator 28)
- Value and volume in roundwood equivalents of exports and imports of wood products (Indicator 30)
- Recovery or recycling of forest products as a percentage of total forest products consumption (Indicator 33)

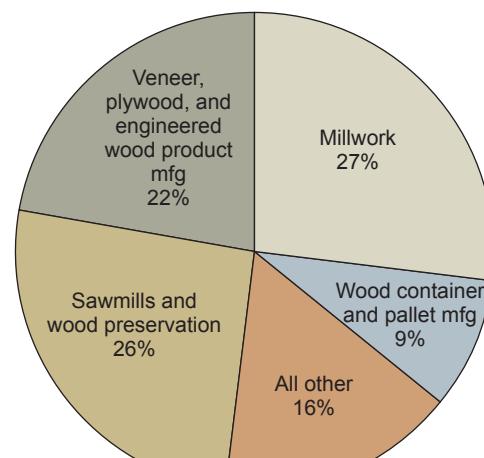
Measures of production, consumption, and value are important to the goals underlying sustainable forest management. These types of measures reflect the importance of forest resources in supplying raw materials for manufacturing and the value that society places on the production of wood and wood products. Strategies to achieve sustainable forest management must reflect the role of forest resources in maintaining a dynamic and strong economy as a primary component of meeting the needs of society.

## Volume and Value of Wood and Wood Products Production

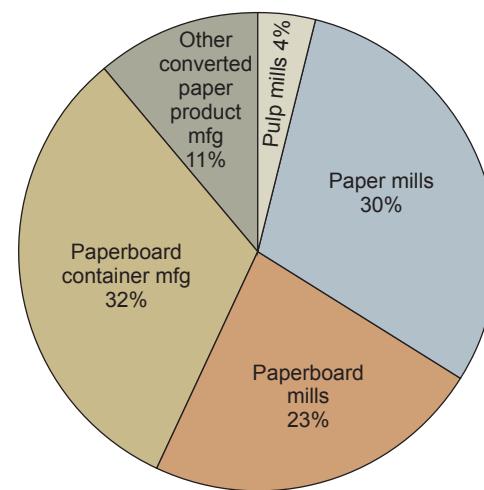
The total volume of wood products (in roundwood equivalent inputs) in the United States, including fuelwood, decreased from 18 billion ft<sup>3</sup> in the late 1980s and early 1990s to 12.3 billion in 2009 before rebounding to 15.5 billion ft<sup>3</sup> in 2017 (Table 5a). The amount of primary wood and paper products produced in the United States increased relatively steadily from 82 million tons in 1950 to 212 million tons in 2005 and has since then declined to 168.7 million tons in 2017 (Table 8a).

Of that production, approximately 66% and 34% were softwood and hardwood, respectively, in 2017, based on roundwood equivalent inputs (Tables 6a and 7a). Total value of shipments for wood, paper, and furniture industries, using standard industrial classification (SIC) industry codes, increased between 1973 and 1996 from \$288 billion to \$356 billion (2005 dollars). Between 1999 and 2009, using North American Industry Classification System (NAICS) industry codes, shipments decreased 11.6% from \$327 billion to \$289 billion. The decrease was caused by a 33% decline for wood products industries and a 15.3% decline for furniture industries. The value of paper industry shipments increased 10.5% between 1999 and 2008 from \$72.7 to \$80.3 billion before declining to \$61.3 billion in 2009 and then rebounding to \$78.4 billion in 2017 (Fig. 25).

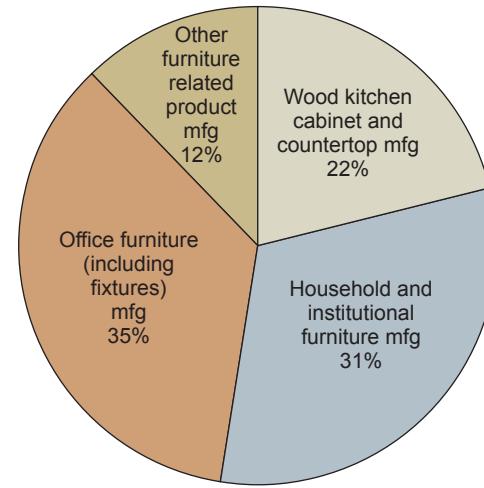
The total volume of sawn wood production has decreased in proportion to other wood products, from 51% of industrial roundwood production in 1965 to 48% in 2005 before falling in 2009 to 37% and then recovering to 41% in 2017 (Table 5a). Nevertheless, the volume of sawn wood production increased by 23% during the 40-year period between 1965 and 2005; the lowest volume was



**Lumber and wood product manufacturing**

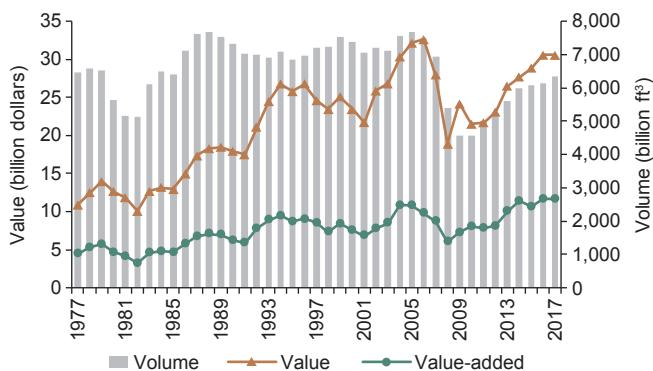


**Paper manufacturing**



**Furniture and related products manufacturing (excluding nonwood)**

**Figure 25. Value-added categories of wood and wood fiber products in 2017.**

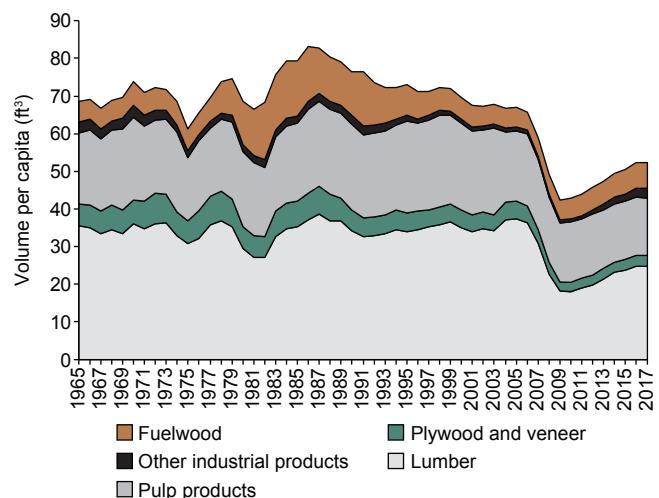


**Figure 26. Volume, value, and value-added of U.S. sawn wood production (U.S. Department of Commerce 2017, Howard and Jones 2016).**

5.1 billion ft<sup>3</sup> in 1982 and the highest volume was 7.7 billion ft<sup>3</sup> in 2005. On average, the value of sawn wood production has continued to increase in real terms (net of inflation) although, in effect, it is still recovering from sharp declines from the great recession that started in 2008 (Fig. 26). Meanwhile, the value added by sawn wood production remained fairly stable during the 1990s at around \$8 billion in real terms before increasing to \$11 billion in 2004, dropping to \$6.0 billion in 2008, and then rebounding to \$11.7 billion in 2017. The volume of sawn wood production increased as much as 2.5 billion ft<sup>3</sup> from the low in 1982 to the high in 2005. It then fell to a new low of 4.5 billion ft<sup>3</sup> in 2010 and then recovered to the current level of 6.3 billion ft<sup>3</sup> in 2017. Rising real lumber prices are important drivers in the introduction of new technologies to use more species, the use of small dimension wood, and the use of residues to make composite structural panels and engineered wood components such as OSB, I-beams, laminated beams, and truss framing.

The production of plywood and veneer has increased in recent years but remains below the high level of production during the 1980s. Other wood-based panel production has increased since 1965. Current levels of plywood production remain well below the peak level of 24.4 billion ft<sup>2</sup> (3/8-in. basis) in 1987 (Table 37). The total value of plywood shipments decreased slightly to \$8.8 billion in 2017 and made up roughly 21% of the total value of all wood products (U.S. Department of Commerce 2017).

Pulp and paper products provide the highest value among wood commodities produced in the United States. The downward trend in pulp and paper production reflects important linkages between decreased income and decreased demand for pulp and paper products. Paper and board products by weight increased more than 135% from 1965 to 1999 (Table 43). Although declining since the great recession, pulp and paper products production is still double the 1965 production level. The value of pulp and paper has fluctuated widely during some periods but was \$83.7 billion in 2017 (U.S. Department of Commerce 2017). The decrease in pulp and paper volumes with somewhat falling values reflects advances in recycling as well as efficiency



**Figure 27. U.S. per capita consumption of wood products, 1965–2017.**

gains and lower production costs of foreign competitors, as well as increased use of electronic media. The largest impact to the wood products sector resulted from the economic decline and decreased activity in the U.S. housing sector.

## Total and Per Capita Consumption of Wood and Wood Products

In addition to knowing the historical and current levels of production, we need to assess our ability to maintain, increase, or decrease levels of production in response to the changing needs of society. The rationale for this indicator is that we will know to what extent we have met and can continue to meet wood demands with our available supply. The additional information gained with this measure compared with the production and value indicators is that supply reflects all sources, domestic and international, of wood. However, no C&I variables directly measure the balance of trade in wood products; thus, potential dependence on outside sources (a possible indicator of management away from sustainable levels) is not evident.

Per capita consumption of wood and paper products in 2017 was 45.5 ft<sup>3</sup>, which was up slightly from the all-time low of 37.1 ft<sup>3</sup> in 2009. In addition, 7.0 ft<sup>3</sup> of fuelwood was consumed per capita in 2017, a 43% increase from 2006. Total consumption in 2017 for industrial products and fuelwood, excluding recovered paper, required 52.4 ft<sup>3</sup> roundwood equivalent of wood harvest per capita in the United States. Industrial products (excluding fuelwood) required 45.5 ft<sup>3</sup> per capita in 2017, down from 68.5 ft<sup>3</sup> per capita in 1986 (Table 11a). In addition, 156 lb of recovered paper was consumed per capita in 2017, down from 163 lb in 2009. Per capita consumption of lumber for the United States and the world in total was 24.8 and 22 ft<sup>3</sup>, respectively, for 2017 (Fig. 27). Per capita consumption of paper and paperboard for the United States and the world in total were 470 and 125 lb, respectively, for 2017.

## Value and Volume in Roundwood Equivalents of Exports and Imports of Wood Products

The deficit in U.S. production compared with U.S. consumption of industrial wood products (in roundwood equivalents, excluding exports) in 2017 was 1.6 million ft<sup>3</sup>, which is greater than the net imports in 1965, which were just over 1.2 billion ft<sup>3</sup>, but quite a bit less than the net imports in 2005, which were more than 5.4 billion ft<sup>3</sup>. The 2017 figure includes wood imports of 3.5 billion ft<sup>3</sup> and exports of 1.9 billion ft<sup>3</sup>. Imports (in roundwood equivalents) constituted almost 21% of the volume consumed in 2017, compared with 12% in 1965 (Table 5a). Softwood lumber remains the primary import into the United States at approximately 87% or 3.0 billion ft<sup>3</sup> (in roundwood equivalent) of total wood imports in 2017 (Tables 5a and 6a).

The roundwood equivalent of the total consumption of wood products in the United States had steadily increased until 2005, reaching a peak of 20.0 billion ft<sup>3</sup>. Since 2005, however, total consumption of wood products has dropped drastically, reaching just 13.1 billion ft<sup>3</sup> in 2009 before rebounding to 17.1 billion ft<sup>3</sup> in 2017. Fluctuations in wood products flow reflect periods of economic downturns and recovery because the demand for wood and wood products generally tracks basic macroeconomic indicators, such as those summarized in Table 1. Slower rates of increase in the consumption of wood products since 1990 have resulted in a declining trend in per capita wood consumption at 52.4 ft<sup>3</sup> in 2017, well below the previous decade (Fig. 27). Per capita consumption by wood products sector shows a fairly stable proportion of individual consumption of most products, with slight decreases in all sectors between 2005 and 2009. But the great recession, which started in 2008, was the driving force behind the greatest downturn in the wood products sector of all time.

The value of the U.S. trade balance (the difference of exports – imports measured in million constant 2005 dollars) was negative for most primary wood products in 2017 (Fig. 28). Trade in U.S. logs, paperboard, and recovered paper continued to have a positive value in 2017 as did pulpwood and wood pulp. Paperboard was the product with the highest net trade value in 2017 at \$4.1 billion. Recovered paper was second highest at \$3.0 billion, followed by logs and wood pulp. Sawn wood continued its negative trade balance at an estimated \$(-)3.3 billion in 2017 (Table 13).

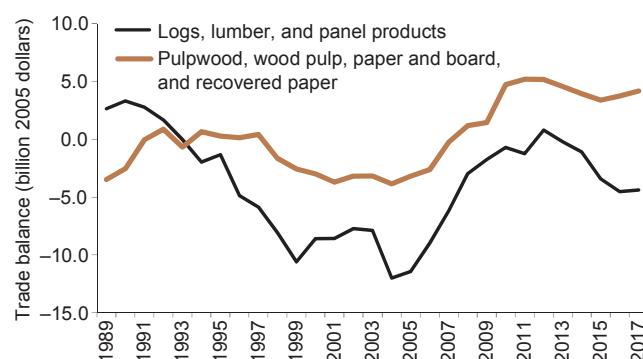


Figure 28. Net trade balance (exports–imports) in billion constant 2005 dollars in the United States, 1989–2017.

## Recovery or Recycling of Forest Products as a Percentage of Total Forest Products Consumption

Traditionally, recovery and recycling in the forestry sector have been associated primarily with paper and paper products, namely newsprint and office waste paper. The majority of available data reflects these productions. Recently, research and data on the recycling of solid wood materials from demolished structures, construction sites, and mill residues reflect the increasing value that society places on forest resources. Paper and paperboard recycling has increased steadily during the last few decades, with substantial increases in the 1990s. As of 2017, paper and paperboard was being recovered in the United States at a rate of 65.8%, up from 22% in 1970, whereas utilization of recovered paper was at 39.7%, up from 25% in 1965 (Tables 46 and 47) (AF&PA 2018b).

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- 62. U.S. Department of Commerce, Bureau of the Census.** Lumber production and mill stocks. Curr. Ind. Rep. Ser. MA24T & MA-321T. [annual]. Washington, DC.  
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Table 1—Measures of economic growth, population, and prices, 1965–2017

Year	Gross domestic product <sup>a</sup>	Non-residential fixed investment <sup>b,c</sup>										Index of industrial production										Consumer price index all items <sup>d</sup>	
		Disposable personal income <sup>a</sup>		Expenditures for new construction <sup>b,a</sup>		residential investment <sup>c</sup>		Number of housing starts <sup>e,g</sup>		Mobile homes <sup>b,g</sup>		Population <sup>a</sup>		Manufacturing <sup>a,e</sup>		Furniture and fixtures <sup>a,e</sup>		Paper and paper products <sup>a,d</sup>		Producer price index all commodities <sup>f</sup>			
		Billion current dollars	Billion current dollars	Billion current dollars	Billion current dollars	Billion current dollars	Billion current dollars	Thousand units	Thousand units	Millions	Millions	Total industrial production	2009=100	2009=100	2009=100	2009=100	2009=100	2009=100	2009=100	2009=100	2009=100		
1965	719.1	3,957.6	493.9	2,718.2	81.9	450.7	226.7	1,473	217	194.3	47.2	45.4	36.6	46.2	18.7	14.6	18.7	19.3	19.3	15.1	15.6		
1966	787.8	4,215.1	533.7	2,855.5	85.8	459.1	255.0	1,165	217	196.6	51.4	49.6	39.4	49.9	19.3	19.3	19.3	19.3	19.3	19.3	15.6		
1967	833.6	4,328.1	571.9	2,969.4	87.2	452.8	251.5	1,292	240	198.7	52.5	50.4	39.4	49.9	19.3	19.3	19.3	19.3	19.3	19.3	15.6		
1968	910.6	4,530.3	621.4	3,091.5	96.8	481.6	262.5	1,508	200.7	205.4	53.3	40.8	52.8	50.4	52.8	19.8	19.8	19.8	19.8	19.8	19.8		
1969	982.2	4,661.6	668.4	3,172.3	104.9	497.9	282.4	1,467	413	202.7	58.0	55.7	42.7	56.9	20.6	20.6	20.6	20.6	20.6	20.6	17.1		
1970	1,035.6	4,667.0	727.1	3,276.7	105.9	477.2	280.8	1,434	401	205.1	56.1	53.1	40.0	56.2	21.3	21.3	21.3	21.3	21.3	21.3	18.1		
1971	1,125.4	4,819.7	790.2	3,384.2	122.4	524.2	280.6	2,052	497	207.7	56.8	54.0	41.6	58.7	22.0	22.0	22.0	22.0	22.0	22.0	18.9		
1972	1,237.3	5,075.1	855.3	3,508.2	139.1	570.5	306.1	2,357	576	209.9	62.3	59.6	50.2	73.4	23.0	23.0	23.0	23.0	23.0	23.0	19.5		
1973	1,382.6	5,365.2	965.0	3,744.7	153.8	596.8	350.7	2,045	567	211.9	67.3	64.9	53.5	79.5	26.0	26.0	26.0	26.0	26.0	26.0	20.7		
1974	1,496.9	5,346.1	1,054.2	3,765.0	155.2	554.3	353.5	1,338	329	213.9	67.0	64.7	49.8	83.1	30.9	30.9	30.9	30.9	30.9	30.9	23.0		
1975	1,630.6	5,332.2	1,159.2	3,790.7	152.6	499.0	318.4	1,160	213	216.0	60.9	57.9	42.6	71.9	25.1	25.1	25.1	25.1	25.1	25.1	33.8		
1976	1,819.0	5,612.5	1,273.0	3,927.8	172.1	531.0	334.1	1,538	246	218.0	65.6	63.0	47.6	79.5	35.3	35.3	35.3	35.3	35.3	35.3	26.6		
1977	2,026.9	5,868.3	1,401.4	4,057.3	200.5	580.5	371.6	1,987	277	220.2	70.4	68.3	53.2	82.9	37.5	37.5	37.5	37.5	37.5	37.5	28.3		
1978	2,291.4	6,204.7	1,580.1	4,278.6	239.9	649.6	424.1	2,020	276	222.6	74.2	72.5	58.1	86.4	40.4	40.4	40.4	40.4	40.4	40.4	30.4		
1979	2,557.5	6,406.6	1,769.5	4,432.6	272.9	683.6	466.6	1,745	277	225.1	76.5	74.5	59.5	87.8	45.5	45.5	45.5	45.5	45.5	45.5	33.8		
1980	2,784.2	6,404.9	1,973.3	4,539.5	273.9	630.1	466.3	1,292	222	227.7	74.4	71.7	58.0	87.6	51.9	51.9	51.9	51.9	51.9	51.9	38.4		
1981	3,115.9	6,559.8	2,200.2	4,632.0	289.1	608.6	492.6	1,084	241	230.0	75.3	72.5	58.5	88.8	56.7	56.7	56.7	56.7	56.7	56.7	42.4		
1982	3,242.1	6,435.3	2,347.3	4,659.2	279.3	554.4	474.2	1,062	240	232.2	71.3	68.5	55.7	87.2	57.8	57.8	57.8	57.8	57.8	57.8	44.9		
1983	3,514.5	6,700.7	2,522.4	4,809.2	311.6	589.4	469.4	1,703	296	234.3	73.2	71.6	63.0	92.7	58.6	58.6	58.6	58.6	58.6	58.6	46.4		
1984	3,902.4	7,174.8	2,810.0	5,166.4	369.0	678.4	552.0	1,750	295	236.3	79.7	78.7	71.5	97.7	60.0	60.0	60.0	60.0	60.0	60.0	48.5		
1985	4,180.7	7,453.6	3,002.0	5,352.1	401.4	715.6	589.0	1,742	284	238.5	80.6	78.0	73.5	95.5	59.7	59.7	59.7	59.7	59.7	59.7	50.2		
1986	4,422.2	7,716.3	3,187.6	5,626.0	429.9	750.1	605.1	1,805	244	240.7	81.4	76.6	69.5	99.5	51.1	51.1	51.1	51.1	51.1	51.1	58.0		
1987	4,692.3	7,957.1	3,363.1	5,703.1	441.6	748.9	572.5	1,621	233	242.8	85.2	86.1	81.4	102.9	59.5	59.5	59.5	59.5	59.5	59.5	53.0		
1988	5,049.6	8,284.8	3,640.0	5,973.4	455.6	745.7	603.6	1,488	218	245.0	89.3	90.5	86.4	107.2	61.8	61.8	61.8	61.8	61.8	61.8	55.1		
1989	5,438.7	8,591.9	3,894.5	6,152.4	469.8	742.2	637.0	1,376	198	247.3	90.2	91.1	89.5	108.6	64.9	64.9	64.9	64.9	64.9	64.9	57.8		
1990	5,743.8	8,731.8	4,166.8	6,334.4	482.5	712.2	641.7	1,193	188	249.9	90.9	91.6	86.3	108.5	67.3	67.3	67.3	67.3	67.3	67.3	60.9		
1991	5,916.7	8,711.3	4,343.7	6,395.3	424.2	624.6	610.1	1,014	171	252.7	89.3	89.8	88.9	108.3	67.3	67.3	67.3	67.3	67.3	67.3	63.5		
1992	6,244.4	8,975.7	4,613.7	6,631.7	452.1	649.8	630.6	1,200	211	255.4	91.7	92.9	81.6	110.9	67.8	67.8	67.8	67.8	67.8	67.8	65.4		
1993	6,553.0	9,188.5	4,790.2	6,724.0	482.7	677.6	683.6	1,288	254	258.1	94.7	96.1	89.0	112.1	68.8	68.8	68.8	68.8	68.8	68.8	67.4		
1994	6,935.7	5,362.6	5,021.7	6,904.6	519.5	714.3	744.6	1,457	304	260.7	99.8	101.9	90.5	117.0	69.6	69.6	69.6	69.6	69.6	69.6	69.1		
1995	7,253.8	9,761.5	5,320.8	7,160.3	538.1	724.1	817.5	1,354	340	263.0	104.6	109.1	91.1	119.0	72.1	72.1	72.1	72.1	72.1	72.1	71.0		
1996	7,813.2	10,321.3	5,588.5	7,382.4	583.6	770.9	899.4	1,475	363	265.5	109.1	112.3	88.9	115.0	73.9	73.9	73.9	73.9	73.9	73.9	73.1		
1997	8,110.9	10,502.3	5,886.6	5,854.5	618.2	800.5	1,009.3	1,474	354	267.9	117.1	121.8	100.0	117.4	73.8	73.8	73.8	73.8	73.8	73.8	74.8		
1998	8,511.0	10,886.4	6,027.8	6,168.6	655.4	838.3	1,135.9	1,617	373	270.3	129.7	99.1	98.7	118.5	71.9	71.9	71.9	71.9	71.9	71.9	70.0		
1999	9,274.3	11,695.3	6,328.4	7,665.9	965.8	1,228.4	1,228.4	1,641	349	273.2	136.2	136.2	120.0	120.0	77.7	77.7	77.7	77.7	77.7	77.7	77.7		
2000	9,824.6	12,133.6	7,120.2	8,630.3	820.3	1,013.1	1,324.2	1,544.6	251	282.1	143.0	143.0	119.4	119.4	80.2	80.2	80.2	80.2	80.2	80.2	80.2		
2001	10,082.2	12,163.3	7,393.2	8,748.0	842.5	842.5	1,016.5	1,455.5	193	284.8	130.2	137.1	113.2	113.2	82.5	82.5	82.5	82.5	82.5	82.5	82.5		
2002	10,445.6	12,461.9	7,829.1	7,049.8	846.1	1,009.4	1,183.4	1,705	168	287.5	129.4	135.8	101.7	110.7	75.8	75.8	75.8	75.8	75.8	75.8	83.8		
2003	11,142.1	13,292.9	8,159.9	9,735.0	915.7	1,092.5	1,301.6	1,848	131	291.1	129.9	136.7	101.0	108.3	79.9	79.9	79.9	79.9	79.9	79.9	85.7		
2004	12,277.0	13,774.0	8,622.8	9,674.4	991.4	1,112.3	1,423.6	1,956	50	297.2	135.2	142.8	108.9	111.3	84.8	84.8	84.8	84.8	84.8	84.8	88.0		
2005	13,095.4	14,235.6	9,031.3	9,817.7	1,104.1	1,200.3	1,544.6	2,068	50	309.8	105.5	105.5	98.7	108.8	91.0	91.0	91.0	91.0	91.0	91.0	104.8		
2006	13,857.9	14,615.2	9,191.7	11,197.9	789.8	965.3	1,433.4	2,068	51	312.0	108.7	108.7	102.0	116.3	95.3	95.3	95.3	95.3	95.3	95.3	107.0		
2007	14,480.3	14,876.8	10,423.6	10,709.5	1,047.7	1,167.2	1,231.0	1,603	117	289.8	114.1	114.1	114.1	116.5	112.4	112.4	112.4	112.4	112.4	112.4	107.0		
2008	14,720.3	14,833.6	11,024.5	11,108.9	1,067.6	1,075.7	1,537.6	906	82	304.5	113.0	115.9	97.4	111.9	109.7	109.7	109.7	109.7	109.7	109.7	100.3		
2009	14,417.9	14,716.6	10,788.8	10,788.8	903.2	1,263.2	1																

Table 2—Number of households and housing market indicators, 1965–2017

Year	Number of households <sup>a</sup>	New home mortgage interest rates <sup>b</sup>	New housing units										Expenditures for residential upkeep and improvements <sup>e</sup>			
			New housing starts													
			One family				Multifamily			Mobile homes						
	Average Millions	Average percent	Total units	Total starts <sup>c,f</sup>	Number starts <sup>c</sup>	Floor area <sup>d</sup>	Number starts <sup>c,f</sup>	Floor area <sup>d</sup>	Number shipments <sup>c</sup>	Floor area <sup>d</sup>	Average square feet	Million current dollars	Million 2009 dollars			
1965	57.4	5.81	1,727	1,510	965	1,498	545	1,053	217	650	11,442	52,009				
1966	58.4	6.25	1,413	1,196	780	1,544	416	1,076	217	660	11,691	50,830				
1967	59.2	6.46	1,562	1,322	845	1,585	477	1,094	240	670	11,687	49,312				
1968	60.8	6.97	1,863	1,545	900	1,642	645	1,123	318	670	12,703	50,812				
1969	62.2	7.81	1,913	1,500	811	1,616	689	1,095	413	684	13,535	50,504				
1970	63.4	8.45	1,870	1,469	815	1,482	654	995	401	732	14,770	52,007				
1971	64.8	7.74	2,582	2,085	1,153	1,520	932	1,011	497	780	16,299	53,792				
1972	66.7	7.60	2,955	2,379	1,311	1,555	1,068	1,035	576	780	17,498	54,342				
1973	68.3	7.96	2,625	2,058	1,133	1,660	925	1,031	567	882	18,512	52,891				
1974	69.9	8.92	1,682	1,353	889	1,695	464	1,021	329	910	21,114	53,184				
1975	71.1	9.00	1,384	1,171	896	1,645	275	1,000	213	952	25,239	58,154				
1976	72.9	9.00	1,794	1,548	1,166	1,700	382	940	246	966	29,034	63,811				
1977	74.1	9.02	2,279	2,002	1,451	1,720	551	938	277	1,000	31,280	63,707				
1978	76.0	9.56	2,312	2,036	1,433	1,755	603	902	276	1,010	37,461	68,610				
1979	77.3	10.78	2,037	1,760	1,194	1,760	566	938	277	1,050	42,231	69,118				
1980	80.8	12.66	1,535	1,313	852	1,740	461	979	222	1,050	46,338	68,345				
1981	82.4	14.70	1,341	1,100	705	1,720	395	980	241	1,015	46,351	63,582				
1982	83.5	15.14	1,312	1,072	663	1,710	409	990	240	1,000	45,291	59,830				
1983	83.9	12.57	2,009	1,713	1,068	1,725	645	942	296	1,035	49,295	63,936				
1984	85.4	12.38	2,051	1,756	1,084	1,780	672	914	295	1,060	70,597	105,369				
1985	86.8	11.55	2,029	1,745	1,072	1,785	673	922	284	1,080	82,127	120,245				
1986	88.5	10.17	2,049	1,805	1,179	1,825	626	911	244	1,110	94,329	132,113				
1987	89.5	9.31	1,854	1,621	1,146	1,905	475	980	233	1,140	98,413	131,744				
1988	91.1	9.19	1,706	1,488	1,081	1,995	407	990	218	1,175	106,864	137,534				
1989	92.8	10.13	1,574	1,376	1,003	2,035	373	1,000	198	1,195	108,054	133,730				
1990	93.3	10.05	1,381	1,193	895	2,080	298	1,005	188	1,205	115,432	138,408				
1991	94.3	9.32	1,185	1,014	840	2,075	174	1,020	171	1,225	107,692	128,052				
1992	94.6	8.24	1,411	1,200	1,030	2,095	170	1,040	211	1,255	115,569	177,798				
1993	95.3	7.20	1,542	1,288	1,126	2,095	162	1,065	254	1,295	121,899	178,790				
1994	96.0	7.49	1,517	1,457	1,198	2,100	259	1,035	304	1,330	130,625	183,436				
1995	97.3	7.87	1,694	1,354	1,076	2,095	278	1,080	340	1,355	124,971	168,175				
1996	98.7	7.80	1,838	1,475	1,161	2,120	314	1,070	363	1,380	131,362	173,415				
1997	99.9	7.71	1,828	1,474	1,134	2,150	340	1,095	354	1,420	133,577	171,362				
1998	101.0	7.07	1,990	1,617	1,271	2,190	346	1,065	373	1,450	133,693	167,116				
1999	103.9	7.04	2,012	1,663	1,303	2,223	341	1,104	349	1,465	142,900	170,872				
2000	104.7	7.52	1,824	1,573	1,231	2,266	342	1,114	251	1,505	152,975	174,989				
2001	108.2	7.00	1,796	1,603	1,273	2,324	330	1,171	193	1,540	157,765	174,134				
2002	109.3	6.43	1,874	1,706	1,359	2,320	347	1,166	168	1,595	173,324	186,631				
2003	111.3	5.80	1,979	1,848	1,499	2,330	349	1,173	131	1,570	176,899	189,704				
2004	112.0	5.77	2,087	1,956	1,611	2,349	345	1,243	131	1,625	198,557	225,967				
2005	113.3	5.94	2,215	2,068	1,716	2,434	353	1,247	147	1,595	215,030	237,550				
2006	114.4	6.63	1,918	1,801	1,465	2,469	336	1,277	117	1,605	228,208	243,734				
2007	116.0	6.41	1,451	1,355	1,046	2,521	309	1,300	96	1,600	226,359	236,530				
2008	116.8	6.05	988	906	622	2,519	284	1,250	82	1,565	z	z				
2009	117.2	5.14	604	554	445	2,438	109	1,227	50	1,530	z	z				
2010	117.5	4.80	637	587	471	2,392	116	1,172	50	1,515	z	z				
2011	113.4	4.56	660	609	431	2,480	178	1,159	51	z	z	z				
2012	114.2	3.69	836	781	535	2,505	245	1,138	55	z	z	z				
2013	122.5	4.00	985	925	618	2,598	307	1,107	60	z	z	z				
2014	123.2	4.22	1,067	1,003	648	2,675	355	1,162	64	z	z	z				
2015	124.6	4.01	1,183	1,112	715	2,689	397	1,152	71	z	z	z				
2016	125.8	3.76	1,255	1,174	782	2,624	392	1,171	81	z	z	z				
2017	126.2	3.97	1,295	1,202	849	2,598	354	1,158	93	z	z	z				

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (63,64).<sup>b</sup>U.S. Council of Economic Advisors (42,43).<sup>c</sup>National Association of Home Builders (28,29); Manufactured Housing Institute (27).<sup>d</sup>U.S. Department of Agriculture, Forest Service estimates based on data from the Manufactured Housing Institute; U.S. Department of Commerce, Bureau of the Census, and U.S. Department of Housing and Urban Development (59,74); Manufactured Housing Institute (27).<sup>e</sup>U.S. Department of Commerce, Bureau of the Census (68).<sup>f</sup>Data for privately owned housing starts from 1986 to present.<sup>z</sup>Data no longer available.

Table 3—Average hourly earnings<sup>a</sup> in timber-based industries and all manufacturing in the United States, 1972–2017<sup>b</sup>

Year	Lumber and wood products except furniture		Logging camps and logging contractors		Sawmills and planing mills		Millwork, plywood, and structural members		Paper and allied products		Furniture and fixtures		Manufacturing	
	U.S. dollars	Index 2009=100	U.S. dollars	Index 2009=100	U.S. dollars	Index 2009=100	U.S. dollars	Index 2009=100	U.S. dollars	Index 2009=100	U.S. dollars	Index 2009=100	U.S. dollars	Index 2009=100
1972	3.33	22.3	4.25	25.0	3.29	22.0	3.37	21.6	3.95	20.5	3.08	20.5	3.82	20.9
1973	3.61	24.2	4.56	26.8	3.62	24.2	3.62	23.2	4.20	21.8	3.29	21.9	4.09	22.4
1974	3.89	26.1	4.91	28.9	3.88	26.0	3.91	25.1	4.53	23.5	3.53	23.5	4.42	24.2
1975	4.26	28.6	5.28	31.1	4.34	29.0	4.26	27.3	5.01	26.0	3.78	25.1	4.83	26.5
1976	4.72	31.6	6.03	35.5	4.86	32.5	4.67	30.0	5.47	28.4	4.34	28.9	5.68	31.1
1977	5.10	34.2	6.58	38.7	5.28	35.3	5.04	32.3	5.96	30.9	4.34	28.9	5.68	31.1
1978	5.60	37.5	7.25	42.6	5.83	39.0	5.55	35.6	6.52	33.8	4.68	31.1	6.17	33.8
1979	6.07	40.7	7.97	46.9	6.32	42.3	5.95	38.2	7.13	37.0	5.06	33.6	6.70	36.7
1980	6.55	43.9	8.64	50.8	6.70	44.8	6.41	41.1	7.84	40.6	5.49	36.5	7.27	39.9
1981	6.99	46.8	9.11	53.6	7.19	48.1	6.89	44.2	8.60	44.6	5.91	39.3	7.99	43.8
1982	7.43	49.8	9.79	57.6	7.73	51.7	7.33	47.0	9.32	48.3	6.31	42.0	8.49	46.5
1983	7.80	52.3	10.17	59.8	8.20	54.9	7.64	49.0	9.93	51.5	6.62	44.0	8.83	48.4
1984	8.03	53.8	10.70	62.9	8.42	56.4	7.81	50.1	10.41	54.0	6.84	45.5	9.19	50.4
1985	8.22	55.1	10.92	64.2	8.52	57.0	8.06	51.7	10.83	56.1	7.17	47.7	9.54	52.3
1986	8.34	55.9	10.82	63.6	8.58	57.4	8.23	52.8	11.18	58.0	7.46	49.6	9.73	53.3
1987	8.40	56.3	10.68	62.8	8.58	57.4	8.35	53.6	11.43	59.3	7.67	51.0	9.91	54.3
1988	8.61	57.7	10.78	63.4	8.75	58.6	8.55	54.8	11.69	60.6	7.94	52.8	10.18	55.8
1989	8.84	59.2	11.13	65.5	9.03	60.4	8.73	56.0	11.96	62.0	8.25	54.9	10.48	57.5
1990	9.08	60.9	11.22	66.0	9.22	61.7	9.04	58.0	12.31	63.8	8.52	56.6	10.83	59.4
1991	9.24	61.9	11.06	65.1	9.37	62.7	9.28	59.5	12.72	65.9	5.76	38.3	11.18	61.3
1992	9.44	63.3	11.17	65.7	9.59	64.2	9.48	60.8	13.07	67.8	9.01	59.9	11.46	62.8
1993	9.61	64.4	11.37	66.9	9.78	65.5	9.65	61.9	13.42	69.6	9.27	61.6	11.74	64.4
1994	9.84	66.0	11.44	67.3	10.05	67.3	9.89	63.4	13.77	71.4	9.55	63.5	12.06	66.1
1995	10.12	67.8	11.64	68.5	10.31	69.0	10.12	64.9	14.23	73.8	9.82	65.3	12.37	67.8
1996	10.44	70.0	11.76	69.2	10.59	70.9	10.51	67.4	14.68	76.1	10.15	67.5	12.78	70.1
1997	10.76	72.1	12.16	71.5	10.85	72.6	10.89	69.9	15.06	78.1	10.55	70.1	13.17	72.2
1998	11.10	74.4	12.48	73.4	11.12	74.4	11.25	72.2	15.51	80.4	10.90	72.5	13.49	74.0
1999	11.46	76.8	13.24	77.9	11.40	76.3	11.59	74.3	15.97	82.8	11.23	74.7	13.91	76.3
2000	11.94	80.0	13.70	80.6	11.90	79.7	12.08	77.5	16.25	84.2	11.74	78.1	14.37	78.8
2001	12.26	82.2	14.40	84.7	12.19	81.6	12.45	79.9	16.87	87.5	12.24	81.4	14.83	81.3
2002	12.50	83.8	14.76	86.8	12.42	83.1	12.60	80.8	17.50	90.7	12.61	83.8	15.29	83.8
2003 <sup>c</sup>	12.71	85.2	14.95	87.9	13.84	92.6	12.60	80.8	17.32	89.8	12.98	86.3	15.74	86.3
2004	13.03	87.3	15.03	88.4	14.05	94.0	13.20	84.7	17.90	92.8	13.16	87.5	16.14	88.5
2005	13.16	88.2	15.74	92.6	13.97	93.5	13.48	86.5	17.98	93.2	13.44	89.4	16.56	90.8
2006	13.40	89.8	16.06	94.5	13.98	93.6	13.62	87.4	18.01	93.4	13.79	91.7	16.80	92.1
2007	13.67	91.6	16.07	94.5	14.19	95.0	14.06	90.2	18.43	95.5	14.32	95.2	17.26	94.6
2008	14.20	95.2	16.64	97.9	14.51	97.1	15.04	96.5	18.88	97.9	14.54	96.7	17.44	95.6
2009	14.92	100.0	17.00	100.0	14.94	100.0	15.59	100.0	19.29	100.0	15.04	100.0	18.24	100.0
2010	14.85	99.5	18.85	110.9	14.88	99.6	15.57	99.9	20.04	103.9	15.06	100.1	18.61	102.0
2011	14.81	99.3	19.41	114.2	14.69	98.3	15.50	99.4	20.26	105.0	15.24	101.3	18.93	103.8
2012	14.99	100.5	20.09	118.2	15.12	101.2	15.54	99.7	20.42	105.9	15.46	102.8	19.08	104.6
2013	15.48	103.8	20.46	120.4	15.95	106.8	15.79	101.3	20.31	105.3	15.58	103.6	19.30	105.8
2014	15.58	104.4	20.69	121.7	15.63	104.6	16.11	103.3	20.35	105.5	15.67	104.2	19.56	107.2
2015	16.16	108.3	20.92	123.1	16.77	112.2	16.45	105.5	21.47	111.3	16.09	107.0	19.92	109.2
2016	16.81	112.7	21.29	125.2	18.03	120.7	16.86	108.1	21.71	112.5	16.82	111.8	20.43	112.0
2017	17.47	117.1	20.58	121.1	18.27	122.3	17.67	113.3	21.773	112.9	17.52	116.5	20.89	114.5

<sup>a</sup>For production or nonsupervisory workers.<sup>b</sup>U.S. Department of Labor, Bureau of Labor Statistics (79,80,81,82).<sup>c</sup>Changed from SIC to NAICS in 2003.

Table 4—Average employment in lumber-producing and lumber-dependent industries in the United States, in thousand people, 1972–2017<sup>a</sup>

Year	Logging	Lumber producing			Lumber, plywood, and millwork			Lumber dependent			Special trade contractors
		Sawmills and planing mills, general <sup>b</sup>	Millwork	Wood kitchen cabinets <sup>b</sup>	Wood containers <sup>b</sup>	Wood buildings and mobile homes <sup>b</sup>	Misc. wood products <sup>b</sup>	Lumber, plywood, and other building materials	Residential building construction	Operative builders <sup>c</sup>	
1972	69.0	182.0	78.5	38.1	45.8	110.5	86.3	268.3	577.6	93.6	1,950.6
1973	75.9	185.9	83.3	41.9	47.5	115.0	91.1	286.1	594.2	101.8	2,096.7
1974	80.7	191.3	75.1	38.5	46.3	82.2	90.0	287.6	576.0	92.1	2,029.0
1975	73.5	169.6	67.6	31.5	38.9	63.1	78.1	267.9	479.9	68.3	1,778.8
1976	81.5	184.4	75.2	36.9	41.2	71.4	84.5	283.4	513.8	67.2	1,805.8
1977	84.2	189.3	80.8	44.2	42.0	82.1	87.0	302.1	578.1	75.4	1,982.7
1978	84.8	192.3	85.5	50.0	44.4	87.3	91.3	325.5	637.3	81.9	2,172.6
1979	88.5	196.4	84.5	54.1	46.9	83.4	92.7	327.5	625.1	83.3	2,292.6
1980	87.5	178.2	76.3	48.4	42.5	65.6	87.9	325.3	554.3	66.6	2,278.3
1981	82.1	168.4	74.8	47.0	41.2	66.7	87.5	315.1	508.1	59.7	2,228.6
1982	75.4	148.1	70.4	42.0	37.6	60.0	78.9	277.2	298.3	446.9	47.9
1983	82.9	160.3	81.1	48.7	37.8	69.3	81.2	83.1	320.9	492.9	54.8
1984	87.5	166.5	90.3	57.0	41.0	73.5	84.4	92.9	346.8	578.9	57.9
1985	84.4	160.2	95.0	60.4	40.9	72.0	83.3	97.2	363.2	622.6	58.4
1986	84.1	158.3	100.9	65.4	40.8	69.4	84.2	100.1	380.4	665.4	57.0
1987	85.4	163.7	109.0	70.8	41.9	69.0	87.4	106.5	412.8	692.3	53.5
1988	88.0	165.8	111.7	72.7	43.8	68.0	89.8	116.2	436.6	710.6	46.6
1989	86.9	163.2	109.6	73.6	44.7	64.4	87.3	119.4	441.0	680.9	41.9
1990	84.6	160.1	106.6	72.3	45.1	59.4	84.8	117.9	432.8	642.8	38.0
1991	78.7	148.0	97.9	64.6	44.0	54.1	80.2	109.7	417.1	553.7	30.7
1992	78.7	144.6	100.3	65.7	43.5	56.4	80.8	110.1	429.3	528.2	27.2
1993	81.1	145.2	103.3	68.8	45.9	64.2	83.8	113.1	450.6	560.8	2,835.6
1994	82.1	150.3	110.2	74.7	49.3	73.5	87.7	119.5	491.9	604.7	27.9
1995	82.5	148.0	111.4	76.0	51.2	81.4	87.8	123.5	512.6	608.8	26.6
1996	80.7	143.5	113.9	78.4	52.4	89.1	88.6	126.0	535.2	642.0	26.2
1997	82.2	144.6	117.4	81.4	54.5	93.4	89.1	130.0	562.6	672.5	26.6
1998	80.0	144.1	121.4	87.6	55.8	99.7	87.6	134.3	576.7	706.1	27.5
1999	79.0	141.7	124.8	95.6	56.8	102.9	85.4	142.2	612.3	767.3	29.9
2000	79.0	142.2	126.5	103.1	58.4	90.3	83.5	145.4	643.4	798.4	32.0
2001	73.5	134.1	123.2	103.6	56.2	76.9	79.5	137.8	680.5	753.4	33.0
2002	69.1	131.7	122.3	107.2	55.1	70.7	75.2	138.6	709.2	773.9	32.8
2003	69.4	117.1	150.3	153.5	59.2	44.2	96.9	114.1	537.6	837.9	28.9
2004	67.8	117.5	156.0	161.2	60.8	43.9	96.8	117.3	548.4	894.1	28.6
2005	65.2	119.2	159.1	170.1	58.5	46.4	99.2	123.3	559.2	960.3	31.1
2006	64.4	117.8	159.4	176.6	59.6	48.4	103.7	120.1	558.8	1,008.8	32.8
2007	60.1	111.2	146.9	166.6	59.5	40.1	91.2	108.3	517.1	949.0	30.9
2008	57.0	103.6	128.1	145.4	57.4	33.9	79.4	90.2	457.7	816.1	28.0
2009	50.4	83.2	101.4	111.9	50.7	21.1	56.6	68.3	360.2	638.1	24.5
2010	49.7	82.3	92.6	99.7	50.8	19.1	52.6	63.9	342.1	571.8	21.4
2011	48.7	83.7	89.1	97.0	52.5	18.3	49.8	62.0	337.1	565.6	21.0
2012	50.8	84.7	86.6	94.9	53.5	17.4	50.5	63.9	339.1	580.8	22.2
2013	51.8	86.3	90.7	100.9	54.5	17.4	53.7	68.0	353.2	611.6	24.9
2014	52.5	90.7	94.8	108.2	57.0	17.4	57.3	72.0	371.7	660.6	26.8
2015	52.4	92.2	97.7	110.2	59.7	17.4	57.9	75.0	382.5	693.5	29.8
2016	51.0	92.2	101.3	116.0	59.5	17.4	61.5	78.2	392.7	730.9	31.6
2017	49.5	92.4	103.4	119.2	59.7	17.4	63.7	77.4	396.6	750.3	33.1

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics.<sup>b</sup>Changes in topics cause data changes after 2003 when SIC changed to NAICS.<sup>c</sup>Change from SIC to NAICS causes change in data 2003 and after.

Table 5a—Production, imports, exports, and consumption of timber products, by major product, 1965–2017 (million cubic feet, roundwood equivalent)<sup>a</sup>

Year	All products										Industrial roundwood use										
	Production	Consumption	Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Production	Imports	Exports	Imports	Exports	Logs <sup>e</sup>	Pulpwood chips <sup>d</sup>	Fuel-wood production and consumption			
	Year	ton	ton	ports	ports	ton	ton	ports	ton	ton	ton	ton	ton	ton	ton	ton	ton	ton	ton	ton	
1965	12,276	13,321	11,230	1,610	558	12,283	6,233	829	151	6,910	1,070	69	3	1,137	213	3,665	560	11	191	z	
1966	12,578	13,611	11,332	1,679	628	12,191	6,222	826	169	6,880	1,118	82	4	1,196	3,392	3,916	565	15	223	z	
1967	12,445	13,257	11,841	1,619	761	12,191	6,037	816	186	6,667	1,100	81	7	1,175	3,365	3,539	709	253	3,822	515	
1968	13,013	13,841	11,814	1,816	887	12,743	6,112	975	191	6,896	1,238	124	6	1,355	3,539	3,984	705	280	3,344	515	
1969	13,208	14,099	11,963	1,945	908	12,999	5,965	1,001	189	6,777	1,153	138	16	1,276	3,686	4,334	600	320	4,334	383	
1970	14,378	15,155	12,963	2,019	1,092	13,890	6,511	1,089	229	7,377	1,197	133	12	1,318	4,165	773	413	452	652	23	
1971	13,656	14,746	12,300	2,105	892	13,513	6,182	1,201	182	7,201	1,378	166	8	1,535	3,773	4,162	602	13	366	150	
1972	13,994	15,157	12,567	2,394	1,075	13,887	6,339	1,492	237	7,593	1,512	206	18	1,700	3,698	3,898	690	317	4,071	517	
1973	14,213	15,214	12,795	2,416	1,199	13,522	6,114	1,228	308	7,034	1,287	107	45	1,628	3,775	3,775	729	216	538	5	
1974	13,909	14,668	12,552	2,169	1,169	13,352	6,036	1,036	288	6,632	1,277	125	64	1,338	3,345	3,602	822	393	4,529	428	
1975	13,230	14,774	11,317	1,747	1,093	11,971	5,884	1,023	303	7,021	1,466	154	59	1,562	3,715	4,052	655	319	4,285	427	
1976	13,580	14,265	12,102	2,121	1,201	13,023	6,026	1,298	279	7,874	1,551	148	26	1,674	3,641	3,986	648	304	4,244	385	
1977	14,218	15,371	12,529	2,513	1,100	13,943	6,461	1,692	295	8,216	1,493	181	25	1,729	3,725	3,986	735	309	4,244	395	
1978	15,012	16,457	12,930	2,843	1,173	14,600	6,586	1,925	295	8,180	1,516	184	25	1,857	3,725	3,986	648	304	4,244	395	
1979	15,730	16,838	13,221	2,758	1,371	14,608	6,516	1,808	356	7,968	1,541	137	25	1,846	3,725	3,986	690	317	4,071	517	
1980	14,988	15,642	12,074	2,390	1,467	12,997	5,623	1,524	406	6,741	1,265	81	30	1,316	4,250	4,529	765	510	4,505	415	
1981	14,495	15,313	11,558	2,345	1,307	12,496	5,588	1,497	398	6,257	1,275	99	53	1,321	4,195	4,477	734	451	4,477	425	
1982	15,037	15,864	11,120	2,317	1,313	12,323	5,133	1,478	336	6,275	1,220	122	56	1,307	4,019	4,288	698	428	4,288	435	
1983	17,726	18,433	12,879	2,872	1,423	14,329	6,121	1,902	375	7,647	1,483	179	44	1,618	4,270	4,592	766	444	4,592	445	
1984	17,138	18,368	13,368	3,144	1,353	15,159	6,491	2,080	354	8,216	1,493	181	25	1,627	4,370	4,838	800	412	559	24	
1985	16,989	18,902	13,400	3,404	1,356	15,448	6,404	2,275	297	8,182	1,485	194	25	1,654	4,432	4,838	918	419	4,931	465	
1986	14,644	18,328	14,644	3,379	1,533	16,490	7,105	2,196	388	8,913	1,598	199	45	1,654	4,432	4,838	972	514	4,933	475	
1987	18,472	20,092	15,385	3,528	1,750	17,613	7,611	2,263	505	9,169	1,639	240	57	1,728	4,920	4,982	975	510	4,920	451	
1988	18,736	19,701	15,618	3,279	2,096	16,800	7,667	2,045	694	9,018	1,598	201	72	1,728	5,075	5,376	980	563	5,533	510	
1989	18,572	19,578	15,722	3,376	2,370	16,228	7,541	2,225	642	9,124	1,454	114	97	1,471	5,149	5,656	607	562	5,753	555	
1990	18,477	19,108	15,677	3,044	2,413	17,010	6,975	1,905	697	8,526	1,423	109	140	1,513	4,038	4,784	969	515	5,621	551	
1991	18,823	19,288	15,187	2,864	2,400	15,652	7,039	1,910	627	8,222	1,267	83	95	1,255	4,397	4,784	975	515	5,621	502	
1992	18,085	18,794	15,215	3,226	1,596	15,944	6,982	1,955	544	8,393	1,294	100	106	1,288	5,156	5,622	900	507	5,622	502	
1993	17,358	18,660	14,914	3,423	2,120	16,216	6,884	2,238	511	8,238	1,261	1293	100	1,293	5,423	5,833	975	515	5,833	515	
1994	17,365	18,891	15,164	3,636	2,110	16,690	7,085	2,409	484	8,309	1,320	94	1328	1,328	5,423	5,833	5,921	401	482	428	14
1995	17,604	19,249	15,454	3,929	2,284	17,099	6,857	2,545	462	8,939	1,303	107	89	1,321	6,077	6,420	904	513	6,420	387	
1996	17,268	18,934	15,344	3,935	2,061	15,353	7,269	17,010	697	8,566	1,454	98	97	1,281	6,161	6,677	890	342	6,706	422	
1997	17,362	19,119	15,662	4,063	2,306	17,419	7,210	2,675	466	9,149	1,213	114	103	1,224	6,101	6,250	929	330	6,422	364	
1998	17,209	19,536	15,674	4,284	1,957	17,904	7,222	2,791	354	9,658	1,201	131	55	1,277	6,100	6,288	918	305	3,636	351	
1999	17,208	19,704	15,583	4,430	1,935	17,384	7,384	2,884	410	10,007	1,208	151	55	1,304	6,140	6,414	975	47	3,636	351	
2000	17,150	19,737	15,528	4,626	2,039	18,115	7,384	2,943	435	9,892	1,187	154	51	1,290	5,881	6,1448	776	517	5,881	515	
2001	16,431	19,322	14,810	4,699	1,807	17,701	7,052	3,007	369	9,699	1,088	176	39	1,225	5,683	6,1438	742	401	5,921	401	
2002	16,303	19,487	14,783	4,871	1,738	17,917	7,217	3,154	359	10,012	1,067	223	34	1,256	5,605	6,1404	750	407	5,921	401	
2003	16,289	19,813	14,774	5,061	1,535	18,286	7,110	3,193	347	9,956	1,052	240	36	1,257	5,784	6,1536	643	317	6,677	318	
2004	15,768	19,748	14,428	5,426	1,445	18,208	7,563	3,704	348	10,919	1,082	354	43	1,383	4,731	5,479	766	305	3,666	235	
2005	15,964	20,041	14,434	5,527	1,470	18,079	7,533	3,744	362	11,063	1,068	373	37	1,403	4,656	5,172	560	316	3,666	235	
2006	15,533	19,150	14,125	5,096	1,479	17,742	7,505	3,415	390	12,930	1,187	51	51	1,290	5,881	6,1448	776	517	5,881	515	
2007	15,203	17,843	13,716	4,604	1,634	16,355	6,921	2,743	359	9,305	1,088	284	40	1,122	5,081	5,595	621	367	5,595	401	
2008	13,575	15,014	12,008	3,150	1,711	13,448	5,395	1,894	345	6,945	745	184	45	1,034	5,031	5,316	607	320	5,316	351	
2009	12,891	13,281	10,635	2,356	1,571	11,420	4,576	1,347	288	5,638	616	146	34	1,281	4,653	4,844	731	317	4,844	235	
2010	12,731	13,332	11,006	2,488	1,167	11,607	4,569	1,422	388	5,602	655	161	55	1,268	4,883	5,095	880	277	4,883	235	
2011	13,391	13,742	11,587	2,469	2,148	11,938	5,005	1,403	454	5,955	651	166	52	1,268	4,922	5,172	875	283	4,911	235	
2012	13,928	14,420	12,046	2,564	2,073	12,537	5,219	1,480	464	6,234	679	176	57	1,275	4,883	5,098	874	373	4,922	235	
2013	14,507	15,026	12,547	2,838	2,320	13,065	5,607	1,703	519	6,791	703	205	55	1,283	4,886	5,172	875	373	4,922	235	
2014	14,982	15,808	12,954	2,838	2,304	13,769	5,985	1,915	545	7,366	693	208	46	1,284	5,016	4,986	893	373	4,986	235	
2015	15,241	16,283	13,124	3,257	2,214	14,167	6,065	2,097	492	7,670	688	244	39	1,285	5,056	4,927	893	373	4,927	235	
20																					

Table 5b—Production, imports, exports, and consumption of timber products, by major product, 1965–2017 (thousand cubic meters, roundwood equivalent)<sup>a</sup>

All products										Industrial roundwood use										Other industrial products, production and consumption <sup>c</sup>									
Year	Production	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Fuel-wood production and consumption <sup>d</sup>		
1965	347,613	377,208	318,010	45,577	15,688	347,815	176,489	23,473	195,672	30,305	1,941	74	32,194	99,947	19,655	6,018	103,764	15,886	308	5,413	209	29,393	491	29,450					
1966	356,161	385,432	326,221	47,542	17,543	345,212	170,941	23,101	5,262	188,780	31,153	2,310	117	33,878	121,389	11,051	11,857	6,301	11,301	1,329	30,186								
1967	352,413	375,398	334,587	51,437	25,124	360,838	173,064	27,605	5,397	195,271	35,044	3,498	161	35,386	119,213	19,278	20,087	7,153	118,221	14,583	358	11,632	2,850						
1968	368,480	399,021	389,249	53,743	55,065	25,718	368,101	188,918	28,336	5,346	191,908	32,646	3,916	453	36,119	109,334	22,441	9,631	122,712	16,980	371	10,855	4,128						
1969	407,151	429,134	367,073	51,760	164,300	393,313	184,360	30,829	6,486	205,724	33,884	3,778	349	37,328	117,931	21,689	11,686	128,144	18,463	654	12,415	4,257							
1970	417,566	438,312	386,111	49,332	59,584	382,851	175,057	51,160	180,888	39,010	4,692	238	45,479	106,831	20,520	17,906	117,845	17,047	439	15,442	3,848								
1971	396,276	429,332	355,889	67,780	25,320	393,369	179,490	42,236	6,709	215,018	42,805	5,831	519	48,125	104,705	19,536	9,977	115,284	16,460	178	14,228	2,727							
1972	402,482	430,556	382,316	68,406	34,104	396,619	183,771	42,938	9,129	217,580	42,371	4,678	949	46,101	106,910	20,639	6,835	115,284	14,017	152	14,017	3,037							
1973	415,179	395,850	349,779	61,425	33,282	377,914	173,140	34,787	9,121	198,176	36,442	3,039	1,281	36,193	116,108	11,183	1,282	128,242	12,120	347	11,959	2,925							
1974	367,728	320,465	403,672	432,688	60,065	395,134	186,608	29,345	8,158	187,785	36,163	3,551	1,812	37,897	94,712	16,197	10,902	102,006	12,080	387	12,080	2,945							
1975	384,533	403,613	435,674	51,160	354,796	71,162	30,843	395,134	182,953	47,914	7,890	222,977	43,933	4,194	748	47,398	103,103	18,354	6,610	112,847	14,721	370	11,737	4,040					
1976	402,613	425,104	465,751	80,507	349,855	413,161	366,187	54,521	186,505	8,348	232,678	44,926	4,729	694	45,965	108,088	17,743	120,163	111,185	14,468	602	15,442	3,848						
1977	425,104	476,523	374,381	78,090	39,093	413,386	184,521	51,187	10,028	252,617	43,303	3,873	903	46,607	117,110	22,228	17,920	129,365	17,652	602	16,558	3,848							
1978	445,438	476,523	341,903	61,426	367,993	159,213	43,162	11,503	190,873	35,815	2,265	647	37,257	120,349	21,684	14,436	127,567	17,752	578	14,770	3,848								
1979	424,693	442,903	431,699	67,679	41,590	367,993	159,213	43,162	11,503	190,873	35,815	2,265	647	37,257	120,349	21,684	14,436	127,567	17,752	578	14,770	3,848							
1980	424,693	433,630	324,444	64,410	36,863	37,003	353,858	95,080	145,341	9,524	186,584	34,924	3,644	989	37,013	113,783	19,761	12,134	126,760	12,026	458	11,479	2,925						
1981	425,817	449,324	326,518	65,618	37,060	348,986	177,680	29,345	8,158	186,584	34,924	3,644	989	37,013	113,783	19,761	12,134	126,760	12,026	458	11,479	2,925							
1982	425,817	465,336	501,224	65,618	40,561	405,474	173,314	20,843	53,846	10,612	216,548	42,287	4,657	1,233	45,828	105,067	12,233	120,923	12,677	130,025	12,601	747	15,830	3,848					
1983	465,336	486,708	81,339	413,161	378,034	429,788	183,788	58,887	10,023	232,662	42,287	4,559	797	46,070	123,739	24,923	16,177	128,985	16,884	665	15,985	3,848							
1984	485,301	532,052	378,538	89,034	38,209	436,869	181,337	64,425	8,409	237,352	42,040	5,500	701	46,539	125,496	26,003	17,178	136,985	17,408	500	17,408	3,848							
1985	481,347	534,688	379,447	96,377	43,614	435,608	180,820	64,565	8,409	238,776	42,042	5,500	701	46,539	125,496	26,003	17,178	136,985	17,408	500	17,408	3,848							
1986	481,347	534,688	414,682	95,695	46,695	485,863	180,820	64,565	8,409	238,776	42,042	5,500	701	46,539	125,496	26,003	17,178	136,985	17,408	500	17,408	3,848							
1987	523,073	568,796	435,647	95,695	46,695	485,863	180,820	64,565	8,409	238,776	42,042	5,500	701	46,539	125,496	26,003	17,178	136,985	17,408	500	17,408	3,848							
1988	530,553	567,585	442,251	92,840	59,640	477,552	177,114	69,651	13,205	255,371	44,763	5,703	2,042	48,923	143,700	28,921	21,730	151,944	16,676	309	16,167	2,925							
1989	525,916	554,016	445,213	95,558	67,486	473,513	173,513	63,005	18,187	258,358	41,164	3,242	2,755	41,650	148,522	28,952	21,730	151,944	16,676	309	16,167	2,925							
1990	523,213	544,085	441,104	96,198	65,326	461,966	207,204	53,945	19,731	241,418	40,292	2,733	3,093	35,933	150,436	29,391	21,730	151,944	16,676	309	16,167	2,925							
1991	533,020	554,628	430,830	86,541	68,516	442,648	199,322	55,901	15,104	237,656	36,653	2,832	2,681	35,548	136,147	15,683	12,233	152,827	17,457	302	16,167	2,925							
1992	511,534	531,690	441,282	92,231	96,924	458,545	195,211	63,361	14,456	237,656	36,653	2,832	2,837	36,618	106,162	14,633	12,233	152,827	17,457	302	16,167	2,925							
1993	491,734	534,093	422,311	92,231	96,924	458,545	195,211	63,361	14,456	237,656	36,653	2,832	2,837	36,618	106,162	14,633	12,233	152,827	17,457	302	16,167	2,925							
1994	491,734	534,093	422,311	92,231	96,924	458,545	195,211	63,361	14,456	237,656	36,653	2,832	2,837	36,618	106,162	14,633	12,233	152,827	17,457	302	16,167	2,925							
1995	498,482	545,043	437,601	111,239	64,698	481,671	197,505	62,055	12,845	260,103	36,275	2,752	2,458	36,570	167,281	20,383	17,208	157,549	17,516	316	17,208	2,925							
1996	498,482	546,161	536,153	434,484	111,439	64,698	481,671	197,505	62,055	12,845	260,103	36,275	2,752	2,458	36,570	167,281	20,383	17,208	157,549	17,516	316	17,208	2,925						
1997	491,641	541,625	443,502	115,042	51,920	543,486	204,189	75,744	13,205	266,709	34,357	3,234	2,930	34,357	167,281	20,383	17,208	157,549	17,516	316	17,208	2,925							
1998	487,317	556,578	556,578	441,104	122,058	510,365	214,161	80,920	10,920	204,493	71,022	10,029	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925							
1999	487,278	560,904	525,454	125,484	125,484	519,199	151,999	81,020	12,747	217,487	10,027	10,209	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925							
2000	486,536	561,956	442,262	130,934	96,198	516,161	151,994	81,020	12,747	217,487	10,027	10,209	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925							
2001	461,661	550,387	418,619	137,945	96,198	507,343	151,994	81,020	12,747	217,487	10,027	10,209	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925							
2002	461,261	561,056	418,360	143,274	96,707	528,397	151,994	81,020	12,747	217,487	10,027	10,209	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925							
2003	461,261	560,882	413,274	143,477	96,707	528,397	151,994	81,020	12,747	217,487	10,027	10,209	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925							
2004	446,490	559,207	413,274	143,477	96,707	528,397	151,994	81,020	12,747	217,487	10,027	10,209	10,209	30,399	137,306	15,755	10,029	155,136	17,516	316	17,208	2,925</							

U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

All products													Industrial roundwood use												
Total				Lumber				Plywood and veneer				Pulpwood-based products				Other industrial production and consumption <sup>a</sup>				Pulpwood chips <sup>b</sup>					
Year	Production	Consumption	Imports	Imports	Consumption	Production	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	
1965	691,226	754,417	662,021	12,755	911,053	357,600	31,376	691,960	86,980	391,344	60,909	3,881	149	64,738	91,893	39,710	207,567	617	31,715	31,988	12,026	2	2		
1966	712,232	770,864	662,442	12,957	917,620	357,976	362,394	66,803	46,202	63,344	64,636	234	12,777	192,102	42,777	13,166	227,713	31,988	86,666	12,603	2	2			
1967	704,826	750,795	661,796	12,257	917,620	43,087	680,423	71,196	50,248	60,520	10,926	62,307	46,969	392	66,657	190,574	40,173	14,806	226,541	20,167	716	23,285	2		
1968	736,959	783,860	669,074	12,257	917,620	50,248	346,128	55,209	56,073	59,543	70,088	66,966	323	76,736	200,427	39,965	18,167	246,424	33,980	742	21,710	2			
1969	748,043	798,498	677,487	11,129	915,436	736,201	337,836	56,073	47,448	56,073	78,817	67,788	697	74,656	235,882	43,798	23,372	256,289	36,925	1,308	24,830	2			
1970	814,422	859,269	835,132	146	914,166	114,320	61,871	786,627	56,627	61,658	12,971	47,448	67,788	78,020	476	86,958	12,037	19,071	230,734	761	4,044	19,071	2		
1971	733,422	866,624	118,188	50,640	786,730	302	350,114	68,002	47,796	68,002	72,307	61,866	1,038	96,251	209,410	39,071	17,954	230,828	28,360	366	28,458	2			
1972	752,553	859,664	117,139	35,561	60,580	781,738	356,981	84,472	13,417	43,035	85,610	11,661	1,038	92,203	213,820	41,173	21,277	237,626	30,034	303	30,494	2			
1973	861,312	874,632	136,811	68,208	791,238	347,542	84,875	84,743	43,520	86,875	74,365	6,078	2,861	76,386	232,216	46,544	22,276	256,484	64,484	644	23,938	2			
1974	787,689	830,358	669,557	122,850	758,828	348,280	69,534	17,461	398,363	72,885	72,885	7,101	7,101	3,623	75,795	189,424	32,384	21,804	218,04	17,806	120	71,302	2		
1975	723,420	749,456	661,726	121,154	731,197	347,277	73,335	58,680	16,316	73,335	83,031	8,738	3,361	88,434	210,468	37,188	18,052	229,076	21,283	759	29,442	2			
1976	761,006	807,744	685,396	142,254	742,130	582,174	347,277	73,335	17,176	39,636	94,797	9,797	1,042	102,629	206,206	41,688	17,708	235,858	21,084	1,042	14,000	2			
1977	805,225	851,507	709,582	147,148	741,686	582,174	347,277	73,335	16,316	445,955	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1978	850,208	931,502	722,290	161,014	741,686	582,174	347,277	73,335	16,316	445,955	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1979	869,317	935,046	748,702	178,166	740,712	589,042	347,277	73,335	16,316	445,955	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1980	849,336	885,806	835,180	173,988	830,180	589,042	347,277	81,630	23,036	381,745	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1981	823,919	876,260	844,988	180,006	830,180	589,042	347,277	81,630	23,036	381,745	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1982	861,553	885,075	850,672	180,256	830,180	589,042	347,277	81,630	23,036	381,745	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1983	850,192	876,075	850,672	180,256	830,180	589,042	347,277	81,630	23,036	381,745	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1984	907,935	926,644	907,935	180,349	850,672	811,122	589,042	107,657	81,630	381,745	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1985	926,195	927,077	758,141	175,069	761,418	855,768	367,875	117,754	16,316	445,955	87,986	9,485	1,042	94,797	216,175	41,688	17,486	240,226	23,270	978	30,684	2			
1986	913,483	1,037,483	1,132,640	197,917	913,802	932,562	402,407	134,360	21,948	402,407	134,360	102,501	50,724	90,484	11,925	2,965	90,484	11,925	90,484	89,975	31,117	2,965	1,042		
1987	1,046,147	1,132,640	1,132,640	197,917	913,802	932,562	402,407	134,360	21,948	402,407	134,360	102,501	50,724	90,484	11,925	2,965	90,484	11,925	90,484	89,975	31,117	2,965	1,042		
1988	1,046,147	1,132,640	1,132,640	197,917	913,802	932,562	402,407	134,360	21,948	402,407	134,360	102,501	50,724	90,484	11,925	2,965	90,484	11,925	90,484	89,975	31,117	2,965	1,042		
1989	1,046,147	1,132,640	1,132,640	197,917	913,802	932,562	402,407	134,360	21,948	402,407	134,360	102,501	50,724	90,484	11,925	2,965	90,484	11,925	90,484	89,975	31,117	2,965	1,042		
1990	1,046,427	1,088,770	882,118	172,366	130,652	92,932	348,206	162,208	116,301	348,206	162,208	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2		
1991	1,063,390	1,091,021	1,091,021	172,366	130,652	92,932	348,206	162,208	116,301	348,206	162,208	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2		
1992	1,063,390	943,054	943,054	193,847	132,768	90,197	347,277	132,768	90,197	347,277	132,768	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2		
1993	983,035	1,050,504	1,050,504	193,847	132,768	90,197	347,277	132,768	90,197	347,277	132,768	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2		
1994	983,468	1,063,166	1,063,166	193,847	132,768	90,197	347,277	132,768	90,197	347,277	132,768	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2		
1995	986,964	1,069,086	875,201	222,558	128,366	96,334	347,277	128,366	96,334	347,277	128,366	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2		
1996	1,072,306	977,932	1,072,306	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
1997	983,422	1,072,306	1,072,306	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
1998	983,422	1,072,306	1,072,306	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
1999	983,422	1,072,306	1,072,306	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
2000	985,926	1,045,745	1,045,745	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
2001	985,926	1,045,745	1,045,745	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
2002	985,926	1,045,745	1,045,745	181,413	887,640	96,334	347,277	181,413	887,640	96,334	347,277	181,413	102,501	46,969	80,385	8,035	1,042	80,385	8,035	80,385	78,765	31,205	20,9	2	
2003	985,926	1,045,745	1,045,745	181,413	887,640	96,334	347,277	181,413	887,640	96															

Table 6a—Production, imports, exports, and consumption of softwood timber products, by major product, 1965–2017 (million cubic feet, roundwood equivalent)<sup>a</sup>

Year	All products		Total		Lumber		Plywood and veneer		Pulpwood-based products		Logs <sup>e</sup>		Pulpwood chips <sup>d</sup>		Fuel-wood production and consumption		
	Production	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Production <sup>b</sup>	Imports	Exports	Imports	Exports	Imports	Exports	
1965	8,506	9,340	8,319	1,297	462	9,154	4,583	771	142	5,226	945	14	2,313	510	155	2,688	
1966	8,663	9,461	8,476	1,322	524	9,274	4,514	753	142	5,125	990	17	2,003	2,451	546	188	
1967	8,624	9,272	8,432	1,296	648	9,080	4,408	756	157	5,007	981	16	1,991	2,458	518	184	
1968	9,170	9,856	8,972	1,464	777	9,658	4,583	915	171	5,327	1,111	25	1,131	2,602	518	206	
1969	9,181	9,930	8,983	1,535	787	9,732	4,437	923	168	5,191	1,035	29	1,049	2,812	577	233	
1970	9,979	10,678	9,752	1,652	983	10,450	4,838	912	1021	203	5,656	1,021	27	9	1,099	313	3,155
1971	9,621	10,678	9,405	1,710	764	10,352	4,702	1,138	154	5,686	1,253	33	7	1,278	2,760	530	3,326
1972	9,855	10,876	9,632	1,945	924	10,654	4,849	1,413	196	6,067	1,379	42	17	1,404	2,623	489	3,045
1973	9,942	10,853	9,731	1,946	1,046	10,642	4,947	1,427	285	6,082	1,374	34	1377	2,603	501	210	
1974	9,532	10,287	9,301	1,744	988	10,056	4,630	1,149	274	5,506	1,190	22	41	1,171	2,823	565	3,118
1975	9,064	9,551	8,844	1,438	951	9,331	4,602	992	251	5,343	1,198	25	59	1,164	2,893	409	225
1976	9,596	10,305	9,381	1,754	1,046	10,089	4,624	1,248	261	5,611	1,382	32	54	1,360	2,630	463	2,577
1977	9,899	11,090	9,709	1,714	950	10,900	4,966	1,632	237	6,361	1,460	31	22	1,469	2,566	456	2,868
1978	10,185	11,613	9,900	2,417	980	11,328	5,009	1,862	227	6,644	1,495	227	1509	2,629	505	212	
1979	10,506	11,675	9,729	2,348	1,179	11,265	5,077	1,742	293	6,325	1,452	29	30	1,451	2,920	558	3,225
1980	9,566	10,402	8,981	2,057	1,211	9,827	4,011	1,473	321	5,163	1,187	18	27	1,178	3,041	547	3,223
1981	9,191	10,127	8,601	1,986	1,060	9,537	3,839	1,446	314	4,971	1,200	21	49	1,200	2,837	514	3,118
1982	9,000	9,860	8,380	1,956	1,098	9,240	3,739	1,442	269	4,898	1,125	25	32	1,118	2,782	476	2,986
1983	10,110	11,356	9,515	2,405	1,159	10,761	4,577	1,856	285	6,148	1,390	39	41	1,377	2,767	488	2,964
1984	10,351	11,886	9,716	2,633	1,098	11,251	4,715	2,022	262	6,476	1,390	36	26	1,401	2,821	555	2,949
1985	10,334	12,046	9,729	2,830	1,118	11,441	4,713	2,212	232	6,692	1,392	46	22	1,415	2,772	561	2,966
1986	11,209	12,765	10,591	2,782	1,227	12,146	5,259	2,135	301	7,093	1,501	42	47	1,507	3,281	591	3,281
1987	11,748	13,221	11,235	2,879	1,406	12,708	5,629	2,174	379	7,424	1,537	62	53	1,546	3,158	632	3,449
1988	11,796	12,829	12,288	2,683	1,650	12,321	5,603	1,992	491	7,104	1,497	51	66	1,482	3,182	631	3,456
1989	11,711	12,692	11,169	2,628	1,647	12,150	5,724	2,164	498	7,089	1,357	30	30	1,296	3,223	628	3,465
1990	11,520	12,171	10,868	2,537	1,886	11,620	5,154	1,865	555	6,484	1,328	26	101	1,253	3,376	644	3,465
1991	11,386	12,038	10,694	2,405	1,753	11,347	5,078	1,773	473	6,378	1,178	23	81	1,118	3,433	608	3,558
1992	11,988	12,902	10,498	2,545	1,596	12,259	4,979	1,910	382	6,507	1,209	29	91	1,147	3,436	599	3,526
1993	10,457	11,875	10,235	2,879	1,406	12,708	5,629	2,174	343	6,592	1,205	29	88	1,146	3,261	611	3,430
1994	10,627	12,276	10,209	3,018	1,369	11,858	4,916	2,344	309	6,951	1,219	27	75	1,172	3,336	622	3,498
1995	10,518	12,307	10,166	3,224	1,435	11,955	4,645	2,483	278	6,850	1,195	31	77	1,149	3,224	686	3,465
1996	10,473	12,359	10,158	3,262	1,376	12,044	4,791	2,598	264	7,126	1,176	30	75	1,130	3,507	613	3,587
1997	10,619	12,554	10,340	3,071	1,371	12,276	4,994	2,966	253	7,337	1,105	35	92	1,048	3,589	661	3,701
1998	10,629	12,977	10,319	3,468	1,120	12,666	4,985	2,695	170	7,520	1,089	43	46	1,085	3,661	702	4,871
1999	10,637	13,086	10,328	3,541	1,093	12,777	5,272	2,766	204	7,834	1,092	53	46	1,089	3,394	680	4,300
2000	10,639	13,139	10,327	3,673	1,170	12,830	5,180	2,805	209	7,776	1,063	58	41	1,078	3,465	746	4,340
2001	10,281	12,982	9,953	3,763	1,042	12,674	4,981	2,895	147	7,729	939	73	31	982	3,332	731	4,377
2002	10,310	13,194	10,202	3,895	1,011	12,805	5,161	3,026	146	8,040	957	27	1,016	1,024	3,485	801	3,504
2003	10,521	13,630	10,233	4,043	934	13,342	5,273	3,056	145	8,183	933	117	26	1,024	3,485	801	3,896
2004	10,549	14,138	10,257	4,474	885	13,845	5,628	3,531	125	9,033	957	176	31	1,102	3,127	701	3,476
2005	10,701	14,318	10,498	4,541	924	14,024	5,728	3,557	138	9,149	943	176	26	1,113	3,452	667	3,644
2006	10,485	13,761	10,327	4,422	917	13,493	5,578	3,282	141	8,178	876	165	26	1,015	3,465	691	3,537
2007	10,112	12,588	9,830	3,522	1,047	12,305	5,084	2,652	150	8,605	756	114	33	874	3,417	683	4,447
2008	9,165	10,607	8,868	3,607	1,165	10,309	4,204	1,831	180	5,855	652	80	37	695	3,444	665	522
2009	8,041	8,843	8,102	3,273	1,011	8,530	3,350	1,281	149	4,483	536	64	28	572	3,283	562	527
2010	8,563	8,235	8,202	3,028	1,352	8,912	4,743	3,575	201	5,169	574	61	46	588	3,408	574	3,417
2011	9,015	9,463	8,672	2,004	1,557	9,120	3,856	1,343	247	4,952	568	64	43	588	3,470	562	3,417
2012	9,437	10,039	9,079	2,103	1,500	9,681	4,072	1,426	235	5,263	591	64	49	607	3,633	590	3,592
2013	9,771	10,446	9,399	3,577	1,682	10,073	4,320	1,644	264	5,697	611	78	46	643	3,610	619	3,488
2014	10,017	10,973	9,630	2,578	1,623	10,385	4,537	1,838	257	6,119	600	82	40	642	3,634	642	3,515
2015	10,118	11,334	9,715	2,754	1,538	10,931	4,614	2,013	232	6,396	591	103	33	662	3,654	616	3,513
2016	10,343	11,912	9,925	3,129	1,560	11,495	4,687	2,356	238	6,805	601	126	36	691	3,719	631	3,594
2017	10,613	12,056	10,181	3,050	1,607	11,624	4,882	2,266	252	6,896	624	155	39	741	3,692	614	3,537

<sup>a</sup> U.S. Department of Agriculture, Forest Service (22); U.S. International Trade Commission (86); data may not add to totals because of rounding; data have been revised.<sup>b</sup> Includes pulpwood and its pulpwood equivalent of wood pulp and paper and board.<sup>c</sup> Includes cooperage logs, poles and piling, fence posts, round mire timbers, box bolts, excisor bolts, chemical wood, shingle bolts, and miscellaneous items.<sup>d</sup> Prior to 1989, pulpwood chips are not included in total production.<sup>e</sup> Prior to 2000, Pulpwood Logs are not included in Logs.<sup>f</sup> Not Available.

U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 6b—Production, imports, exports, and consumption of softwood timber products, by major product, 1965–2017 (thousand cubic meters, roundwood equivalent<sup>a</sup>)

All products		Lumber										Pulpwood and veneer										Industrial roundwood use											
Year	Production	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production		
1965	240,852	264,494	235,561	36,729	13,087	250,204	21,824	3,508	147,984	306	65	27,097	65,488	4,380	24,443	28,443	65,567	8,495	61	5,044	61	5,201	5,201	5,201	5,201	5,201	5,201	5,201	5,201	5,201			
1966	245,310	267,908	240,009	37,176	14,338	262,607	127,715	4,020	145,120	469	103	28,443	68,409	4,755	80,103	8,778	5,969	193	5,969	z	z	z	z	z	z	z	z	z	z	z	z		
1967	244,210	262,566	238,777	36,694	18,348	257,123	124,929	4,452	141,788	465	181	28,088	69,601	5,223	64,665	16,331	79,043	7,070	154	154	8,493	z	z	z	z	z	z	z	z	z	z	z	
1968	259,656	279,084	254,059	41,446	12,487	22,008	129,772	4,837	150,837	31,446	716	139	67,682	79,618	4,677	65,630	28,625	7,968	11,202	z	z	z	z	z	z	z	z	z	z	z	z	z	
1969	259,988	281,178	254,381	43,462	22,272	275,571	125,632	28,133	4,762	147,003	29,304	808	422	28,691	78,161	1,127	83,433	9,335	189	10,492	z	z	z	z	z	z	z	z	z	z	z	z	
1970	272,587	302,374	276,139	46,778	26,991	285,927	131,948	32,237	4,389	161,016	54,740	212	36,201	74,747	15,003	6,948	16,615	74,448	252	10,100	z	z	z	z	z	z	z	z	z	z	z	z	
1971	272,441	298,941	266,327	48,436	21,632	283,930	131,314	30,174	40,022	55,39	171,802	471	37,745	74,285	13,841	8,314	13,804	39	14,304	z	z	z	z	z	z	z	z	z	z	z	z		
1972	272,760	307,974	270,058	32,024	13,148	301,676	131,318	40,231	8,077	172,229	39,917	950	873	36,994	73,697	14,200	5,340	16,001	78,940	207	11,431	z	z	z	z	z	z	z	z	z	z	z	
1973	281,514	307,313	275,553	55,120	29,821	301,352	140,022	40,231	8,077	172,229	39,917	950	873	36,994	73,697	14,200	5,340	16,001	78,940	207	11,431	z	z	z	z	z	z	z	z	z	z	z	
1974	289,909	291,289	263,983	49,371	27,591	284,762	131,105	32,548	7,749	155,904	33,696	614	1,158	33,153	79,940	16,001	6,360	13,661	81,957	8,133	39	14,731	z	z	z	z	z	z	z	z	z	z	z
1975	266,670	270,457	250,426	40,174	26,928	250,213	130,302	28,120	7,190	151,284	32,025	607	1,678	32,025	77,292	13,661	6,360	13,661	78,994	11,779	310	16,244	z	z	z	z	z	z	z	z	z	z	z
1976	271,742	291,701	265,632	49,664	29,664	269,604	130,495	33,345	7,402	158,689	39,137	689	1,533	38,197	84,994	13,661	6,377	13,201	81,957	14,294	305	16,110	z	z	z	z	z	z	z	z	z	z	z
1977	280,305	314,032	274,925	60,530	30,826	282,645	141,832	52,739	6,439	180,114	41,356	689	1,436	41,356	84,994	13,661	6,377	13,201	81,957	14,294	305	15,380	z	z	z	z	z	z	z	z	z	z	z
1978	288,417	328,845	280,347	64,453	32,026	280,275	141,832	52,739	6,439	180,114	41,356	689	1,436	41,356	84,994	13,661	6,377	13,201	81,957	14,294	305	15,380	z	z	z	z	z	z	z	z	z	z	z
1979	287,507	330,606	285,897	68,493	33,394	287,275	138,996	33,091	49,332	81,111	41,110	819	843	41,086	82,890	15,807	8,021	16,102	55,495	10,335	91,325	15,807	15,807	15,807	15,807	15,807	15,807	15,807	15,807	15,807	15,807		
1980	270,602	294,557	254,220	56,244	34,269	278,275	132,275	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1981	260,264	286,755	260,264	57,145	31,090	261,635	106,96	40,950	8,897	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1982	254,839	279,192	237,282	56,145	31,090	261,635	106,96	40,950	8,897	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1983	268,296	321,579	261,579	61,077	32,024	304,730	132,275	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1984	256,099	336,572	275,118	74,555	31,082	308,529	132,275	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1985	256,118	336,572	275,118	74,555	31,082	308,529	132,275	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1986	311,466	341,611	275,485	80,141	31,658	323,968	133,446	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1987	311,419	361,455	275,485	80,141	31,658	323,968	133,446	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1988	311,424	363,280	278,872	81,152	31,876	321,924	134,296	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1989	311,625	359,391	276,644	82,075	32,026	344,048	153,663	61,281	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z	
1990	326,206	344,642	282,811	91,841	32,026	349,928	143,794	62,026	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z	
1991	322,410	340,881	302,835	68,998	49,328	321,924	143,794	62,026	32,026	8,077	140,775	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z	
1992	312,601	339,469	297,258	72,054	45,186	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1993	326,108	336,274	295,343	80,352	40,267	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1994	327,924	340,025	300,025	80,352	40,267	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1995	327,025	340,025	300,355	80,352	40,267	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1996	327,625	349,553	303,295	80,352	40,267	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1997	327,441	340,881	302,397	80,352	40,267	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767	z	z	z	z	z	z	z	z	z	z	z		
1998	300,709	347,444	301,218	80,352	40,267	324,126	140,986	54,084	10,818	184,253	32,026	607	1,384	32,026	83,160	7,773	7,773	83,160	8,970	10,767</td													

Table 6c—Production, imports, exports, and consumption of timber products, by major product, 1965–2017 (metric tons, carbon, roundwood equivalent)<sup>a</sup>

All products										Industrial roundwood use									
Total					Lumber					Plywood and veneer					Pulpwood-based products				
Year	Production	Consumption	Imports	Exports	Production	Consumption	Imports	Exports	Production	Consumption	Imports	Exports	Production	Consumption	Imports	Exports	Logs <sup>b</sup>	Pulpwood chips <sup>c</sup>	
1965	54,841	58,977	6,373	2,967	58,977	6,156	792	32,559	6,156	6,232	15	6,156	1,717	3,468	1,051	1,110	2	1,270	
1966	58,918	54,646	6,549	3,380	58,935	6,156	792	31,926	6,451	108	24	6,535	16,658	3,708	1,141	19,255	42	1,311	
1967	55,666	58,935	6,371	4,143	54,622	6,156	792	27,462	4,710	979	31,193	6,390	107	42	6,456	16,704	3,520	1,253	
1968	59,183	54,646	6,299	57,840	62,299	6,156	792	58,950	5,698	1,064	7,233	165	32	7,366	17,680	3,523	1,389	19,804	
1969	59,382	62,986	5,986	5,036	62,986	6,156	792	27,639	5,749	1,048	32,341	6,740	186	97	6,829	19,108	3,920	1,583	
1970	67,499	60,959	10,631	6,118	67,499	6,156	792	6,137	6,383	1,267	7,044	175	60	7,159	20,744	3,987	2,128	22,988	
1971	62,166	68,764	6,099	10,965	64,960	6,156	792	29,293	7,092	961	35,423	8,188	217	49	8,326	18,759	3,601	1,688	
1972	63,561	68,568	6,205	12,408	68,568	6,156	792	30,210	8,805	1,218	37,796	8,979	271	108	9,141	17,828	3,322	1,527	
1973	67,078	68,489	62,647	12,486	6,644	68,489	30,817	8,851	1,777	37,880	9,951	219	201	8,969	17,687	3,408	1,426	19,624	
1974	61,591	64,889	60,024	11,188	6,323	64,889	7,161	28,843	7,750	141	266	7,255	18,186	3,840	1,731	21,189	45	2,515	
1975	58,420	60,049	56,921	9,196	6,068	60,049	7,086	28,866	6,182	1,654	33,285	7,803	186	386	7,583	16,263	2,779	1,526	
1976	61,922	64,997	62,387	11,197	6,656	64,997	7,776	28,908	6,947	1,997	7,801	9,001	206	145	8,854	17,871	3,149	1,971	
1977	63,778	70,046	62,486	13,968	6,046	70,046	30,933	10,168	17,478	39,625	9,512	200	145	9,566	17,439	3,099	1,454	18,484	
1978	65,662	72,789	63,725	14,965	7,249	72,789	31,203	11,602	14,827	7,034	9,734	242	146	9,829	17,870	3,433	1,442	19,861	
1979	67,887	72,555	65,101	14,953	7,755	72,555	30,380	10,853	13,828	9,455	19,001	188	194	9,450	19,846	3,794	1,721	21,903	
1980	62,055	63,518	58,147	13,129	7,758	63,518	9,177	32,166	20,002	9,057	7,729	119	178	7,670	20,664	3,719	2,480	23,485	
1981	59,734	61,566	58,724	12,731	6,800	61,566	23,919	9,009	19,958	9,009	1,957	7,813	140	321	7,632	19,958	3,496	2,130	
1982	58,451	59,693	54,237	12,474	7,018	59,693	8,891	16,766	30,514	1,676	7,329	183	209	7,282	20,970	3,223	1,877	20,301	
1983	65,421	68,250	61,377	15,271	7,398	68,250	28,516	11,563	17,776	30,776	3,033	8,984	281	265	8,971	18,805	3,314	2,379	
1984	66,974	72,387	62,659	16,727	6,998	72,387	29,376	12,589	17,977	29,376	148	8,055	237	168	9,124	19,170	3,774	2,104	
1985	66,827	73,595	62,715	17,862	7,122	73,595	29,585	13,779	14,446	41,046	1,046	9,084	297	144	9,216	18,836	3,816	1,813	
1986	68,255	74,458	68,255	17,862	7,122	74,458	32,763	13,303	13,878	32,763	402	9,778	306	270	9,813	20,465	4,018	2,185	
1987	75,860	81,760	72,373	18,308	8,965	81,760	35,070	13,541	14,286	42,560	10,013	44,255	402	344	10,071	21,461	4,297	2,315	
1988	76,153	79,287	72,702	17,088	10,502	79,287	37,784	12,409	14,255	44,255	9,752	13,482	332	430	9,654	21,628	4,297	2,433	
1989	74,684	78,710	71,020	17,964	10,786	78,710	37,784	13,482	14,105	44,160	8,838	194	588	8,444	21,904	4,267	2,626	23,546	
1990	74,950	73,450	71,930	16,176	10,930	73,450	32,110	11,617	12,459	40,268	8,648	188	656	8,161	21,941	4,279	2,636	24,484	
1991	72,785	73,184	68,087	15,322	7,184	73,184	31,635	11,047	12,448	39,734	7,674	148	543	7,280	23,328	4,129	3,279	24,178	
1992	70,734	73,769	67,052	16,192	8,025	73,769	31,017	11,889	12,446	40,536	7,845	189	594	7,470	21,064	4,170	3,774	21,044	
1993	69,931	74,544	68,245	18,023	8,343	74,544	29,604	13,589	12,344	41,069	7,845	187	571	7,461	22,164	4,151	3,008	21,351	
1994	67,938	76,248	65,094	19,106	7,952	76,248	30,628	14,604	14,878	7,941	178	487	597	7,833	22,669	4,230	3,126	22,999	
1995	67,384	76,940	64,946	20,394	8,446	76,940	30,839	15,470	14,733	42,675	205	503	7,486	23,834	4,331	3,126	24,343		
1996	67,087	77,446	64,946	20,355	8,136	77,446	30,839	14,844	14,394	44,394	306	505	7,486	23,834	4,331	3,126	24,345		
1997	67,845	78,630	65,924	19,761	7,971	78,630	31,109	16,174	16,577	45,706	229	597	7,195	24,391	4,490	3,126	24,346		
1998	67,937	81,468	81,468	21,984	6,345	81,468	32,116	17,889	17,889	46,850	277	709	7,088	24,484	4,771	3,126	24,484		
1999	67,853	82,051	65,792	22,450	6,152	82,051	32,424	17,230	17,230	48,006	7,122	347	7,090	23,063	4,620	2,921	24,041		
2000	67,982	82,441	65,886	23,311	6,755	82,441	32,271	17,472	17,472	48,444	7,020	337	7,800	23,552	5,073	3,117	23,557		
2001	68,654	81,437	63,592	23,872	5,985	81,437	31,032	18,033	19,13	48,152	6,119	474	6,199	6,394	22,311	4,967	2,988	21,096	
2002	65,956	83,490	62,482	24,820	5,963	83,490	32,151	18,849	19,911	44,304	5,090	597	7,141	24,544	4,911	2,914	21,158		
2003	67,344	85,697	65,387	24,846	5,353	85,697	32,847	19,031	19,031	44,304	5,075	6,076	7,608	168	6,668	23,687	4,644	2,944	
2004	67,273	88,608	65,284	28,288	4,973	88,608	35,059	21,987	21,987	44,304	5,075	6,076	7,617	21,254	4,766	2,944	21,254		
2005	68,341	88,787	66,338	28,772	5,323	88,787	35,059	22,159	22,159	44,304	5,075	6,076	7,617	21,251	4,766	2,944	21,254		
2006	68,913	88,457	65,954	20,976	5,428	88,457	34,748	20,444	20,444	45,705	5,075	6,076	7,617	21,074	4,766	2,944	21,074		
2007	64,617	79,887	62,985	22,998	6,006	79,887	31,550	16,520	16,520	47,136	5,162	745	7,141	23,222	4,712	3,036	23,222		
2008	58,486	66,546	58,462	16,852	12,310	58,486	36,476	11,409	11,409	42,447	5,162	749	5,247	23,409	4,521	3,036	23,409		
2009	51,565	55,270	49,320	12,310	6,479	55,270	20,871	7,980	7,980	44,304	4,166	182	3,724	22,311	3,617	3,036	22,311		
2010	54,653	57,709	52,424	12,992	6,464	57,709	22,271	8,343	8,343	44,304	4,166	188	3,724	22,271	3,617	3,036	22,271		
2011	57,500	59,802	55,689	12,837	9,004	59,802	24,020	8,369	8,369	44,304	4,166	203	3,833	23,161	3,699	3,036	23,161		
2012	60,157	62,338	57,723	13,459	8,546	57,723	25,366	8,369	8,369	44,304	4,166	203	3,833	23,580	3,953	3,036	23,580		
2013	62,398	65,046	60,338	13,459	8,546	60,338	26,913	10,223	10,223	44,304	4,166	203	3,833	23,622	4,007	3,036	23,622		
2014	64,033	68,388	61,939	14,457	8,085	61,939	28,264	11,452	11,452	44,304	4,166	203	3,833	23,734	4,007	3,036	23,734		
2015	64,474	70,476	67,173	17,543	8,805	67,173	28,746	12,543	12,543	44,304	4,166	203	3,833	23,846	4,007	3,036	23,846		
2016	66,010	74,065	63,739	17,543	8,805	74,065	29,200	14,672	14,672	44,304	4,166	203	3,833	23,946	4,007	3,036	23,946		
2017	67,619	74,481	64,682	19,400	9,201	74,481	30,412	14,117	14,117	44,304	4,166	203	3,833	24,037	4,007	3,036			

Table 7a—Production, imports, exports, and consumption of hardwood timber products, by major product, 1965–2017 (million cubic feet, roundwood equivalent)<sup>a</sup>

Year	All products			Total			Lumber			Plywood and veneer			Pulpwood-based products			Logs <sup>e</sup>			Pulpwood chip <sup>d</sup>			Fuel-wood production and consumption		
	Production	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Production	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports
1965	3,763	3,980	2,912	312	96	3,129	1,650	58	24	1,684	125	55	0	180	864	191	58	997	260	9	13	z	z	851
1966	3,897	4,150	3,045	457	104	3,298	1,709	73	27	1,755	128	65	0	193	941	210	65	1,086	255	8	12	z	z	853
1967	3,774	3,985	2,900	323	113	3,111	1,628	60	29	1,660	119	65	1	184	907	191	68	1,030	230	7	16	z	z	874
1968	3,742	3,985	2,842	353	110	3,084	1,529	60	20	1,569	127	98	1	224	937	187	74	1,050	234	7	15	z	z	900
1969	3,881	4,170	2,979	410	122	3,268	1,529	78	21	1,586	118	110	1	227	1,049	216	87	1,178	270	6	13	z	z	902
1970	4,249	4,476	3,211	367	139	3,439	1,674	67	26	1,715	115	3	219	1,112	187	100	1,199	299	6	11	z	z	1,037	
1971	4,178	2,895	394	128	3,161	1,480	62	28	1,514	125	132	1	257	1,012	195	90	1,117	268	5	9	z	z	1,017	
1972	3,983	4,281	2,935	448	150	3,233	1,489	78	41	1,526	133	164	2	256	1,074	201	92	1,183	223	4	15	z	z	1,048
1973	4,055	4,361	3,064	459	153	3,370	1,543	96	37	1,602	122	132	3	251	1,173	227	95	1,305	208	4	18	z	z	991
1974	4,137	4,381	3,051	426	181	3,296	1,484	78	35	1,528	97	86	4	178	1,277	257	123	1,411	173	5	19	z	z	1,086
1975	3,512	3,679	2,473	310	142	2,641	1,282	44	37	1,289	79	100	5	174	952	163	90	1,025	150	3	11	z	z	1,039
1976	3,738	3,950	2,722	367	156	2,940	1,402	50	42	1,410	84	123	5	202	1,086	192	93	1,184	135	2	15	z	z	1,016
1977	4,059	4,281	2,821	372	150	3,043	1,495	60	41	1,514	91	117	4	205	1,075	192	90	1,177	145	2	14	z	z	1,238
1978	4,602	4,844	3,030	426	184	3,272	1,578	63	67	1,573	92	130	2	220	1,188	230	96	1,321	155	3	18	z	z	1,572
1979	4,944	5,163	3,125	410	191	3,343	1,640	66	63	1,642	89	108	2	195	1,216	234	106	1,344	160	2	21	z	z	1,820
1980	5,163	5,240	3,093	333	256	3,170	1,611	51	85	1,577	78	62	3	138	1,209	218	145	1,282	170	2	24	z	z	2,070
1981	5,084	5,187	2,856	349	247	2,959	1,319	51	83	1,286	75	77	3	149	1,258	219	135	1,342	180	2	25	z	z	2,227
1982	5,880	6,004	2,940	359	215	3,084	1,407	37	67	1,377	95	97	3	189	1,222	130	130	1,328	187	3	15	z	z	2,920
1983	6,166	6,370	3,364	467	263	3,568	1,543	45	90	1,499	104	140	3	241	1,503	278	153	1,628	196	4	18	z	z	2,802
1984	6,643	6,899	3,652	511	256	3,909	1,775	57	92	1,741	103	125	2	226	1,549	325	141	1,732	205	5	20	z	z	2,991
1985	6,521	6,856	3,671	573	238	4,007	1,691	63	65	1,690	93	149	3	239	1,660	357	153	1,864	209	5	18	z	z	2,849
1986	6,367	7,258	4,053	597	306	4,344	1,846	60	87	1,820	96	152	4	244	1,869	381	193	2,057	219	4	22	z	z	2,914
1987	6,566	6,871	4,149	649	344	4,455	1,982	89	126	1,945	102	179	4	277	1,824	380	190	2,014	218	2	24	z	z	2,416
1988	6,722	6,872	4,330	595	446	4,479	2,064	53	203	1,915	101	150	6	245	1,892	390	205	2,078	240	2	33	z	z	2,393
1989	6,881	6,886	4,553	548	523	4,578	2,118	61	144	2,035	97	85	7	174	1,926	395	221	2,100	261	3	34	5	117	2,308
1990	6,937	6,937	4,609	507	528	4,588	2,163	40	142	2,062	95	71	9	157	1,937	394	228	2,103	264	2	35	1	114	2,349
1991	7,438	7,250	4,493	459	647	4,305	1,961	37	153	1,844	89	60	11	138	1,964	361	263	2,063	259	1	45	0	174	2,945
1992	7,025	6,806	4,071	512	731	4,488	2,003	45	162	1,886	85	71	15	142	2,080	393	292	2,182	279	1	36	1	226	2,308
1993	6,901	6,785	4,921	582	698	5,238	2,142	55	168	2,028	89	71	13	216	2,162	454	281	2,335	292	1	38	1	199	1,979
1994	6,738	6,615	4,956	618	741	4,832	2,168	64	175	2,058	101	67	11	156	2,240	480	297	2,423	188	3	42	5	216	1,783
1995	6,942	5,288	5,288	705	849	5,144	2,212	62	184	2,089	107	76	12	244	2,499	559	365	2,692	182	4	43	5	245	1,798
1996	6,795	6,575	5,186	674	893	4,966	2,183	66	190	2,059	105	67	11	161	2,401	530	357	2,574	161	5	41	5	295	1,609
1997	6,743	6,565	5,322	756	935	5,143	2,217	79	213	2,082	109	79	12	176	2,512	589	381	2,721	155	7	51	2	278	1,422
1998	6,580	6,559	5,259	816	837	5,238	2,226	96	185	2,137	112	88	9	191	2,459	624	326	2,767	143	6	53	2	265	1,322
1999	6,571	6,618	5,255	890	842	5,302	2,261	118	206	2,173	116	98	9	205	2,416	660	305	2,771	140	6	60	8	262	1,316
2000	6,514	6,599	5,201	953	869	5,285	2,203	138	226	2,115	124	96	8	212	2,415	701	317	2,799	141	9	92	8	226	1,314
2001	6,169	6,340	4,857	936	567	5,027	2,070	112	213	1,970	149	103	8	244	2,353	705	321	2,737	48	11	109	4	76	1,313
2002	5,983	6,242	4,762	727	5,011	4,007	2,056	120	212	1,972	120	127	8	240	2,353	705	321	2,737	48	11	104	4	76	1,231
2003	5,769	6,184	4,542	1,017	601	4,957	1,837	138	202	1,773	119	123	9	233	2,299	735	253	2,781	149	11	94	10	43	1,227
2004	5,218	5,610	3,971	952	560	4,363	1,935	173	222	1,886	125	178	12	251	2,040	664	567	2,003	149	10	110	11	43	1,247
2005	5,283	5,723	4,028	986	546	4,667	1,953	150	226	1,914	125	176	11	290	2,077	685	585	1,833	207	14	149	13	42	1,247
2006	5,080	5,389	3,940	871	562	4,249	1,927	133	249	1,811	113	174	9	279	1,656	538	181	2,014	120	9	78	16	46	1,140
2007	5,091	5,255	3,886	721	567	4,050	1,857	91	209	1,738	106	150	7	248	1,664	470	202	1,931	122	5	82	6	56	1,204
2008	4,409	4,409	3,141	544	546	3,139	1,191	63	165	1,089	93	104	8	189	1,587	369	228	1,728	125	5	70	3	38	1,588
2009	4,420	4,223	2,907	435	452	4,017	1,226	66	140	1,153	81	82	6	157	1,370	282	204	1,449	128	5	59	1	44	1,333
2010	4,168	4,092	2,771	459	536	2,695	995	52	188	859	81	100	9	172	1,455	298	229	1,524	130	4	75	5	35	1,397
2011	4,375	4,279	2,914	465	561	2,818	1,028	60	207	1,003	83	102	9	176	1,675	249	249	1,497	133	4	65	5	31	1,461
2012	4,492	4,380	2,967	461	573	2,856	1,147	54	230	971	88	112	9	191	1,455	284	233	1,507	175	6	67	5	35	1,524
2013	4,736	4,580	3,148	481	637	2,992	1,287	62	255	1,094	92	127	9	210	1,458	283	200							

Table 7b—Production, imports, exports, and consumption of hardwood timber products, by major product, 1965–2017 (thousand cubic meters, roundwood equivalent)<sup>a</sup>

All products										Industrial roundwood use										
Total					Lumber					Plywood and veneer					Pulpwood-based products					Other industrial products production and consumption <sup>c</sup>
Year	Production	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Consumption	Production	Imports	Exports	Production	Imports	Exports	Logs <sup>e</sup>	Pulpwood chip <sup>d</sup>	Fuel-wood production and consumption <sup>f</sup>	
1965	106,552	112,714	82,449	8,848	2,708	88,612	46,720	1,649	692	47,678	3,540	1,544	10	5,097	24,458	5,407	1,638	28,227	7,362	
1966	110,360	117,524	86,212	10,106	2,947	93,376	48,383	2,076	763	49,695	3,625	1,849	14	5,465	26,642	5,941	1,828	30,754	7,221	
1967	106,874	112,841	82,121	9,142	3,195	88,089	46,113	1,691	811	46,983	3,370	1,835	15	5,210	25,687	5,421	1,930	29,178	6,513	
1968	105,974	112,837	80,478	9,991	3,116	87,341	43,292	1,702	560	44,434	3,596	2,782	23	6,343	25,545	5,299	2,103	41,215	6,430	
1969	109,904	118,071	84,362	11,603	3,446	92,549	43,286	2,203	584	44,905	3,341	3,108	32	6,428	27,916	6,110	2,467	33,359	6,615	
1970	120,307	126,760	90,934	10,382	3,945	97,387	47,395	1,907	724	48,577	3,256	3,019	90	6,201	31,499	5,284	2,819	33,965	8,471	
1971	110,785	118,321	81,985	11,159	3,638	89,521	41,909	1,765	791	42,883	3,749	26	7,277	26,671	5,554	2,610	37,599	1267	2,241	
1972	112,774	121,397	83,110	12,690	4,076	91,733	42,172	2,214	1,170	43,216	3,766	4,655	48	8,382	30,420	5,695	2,616	33,499	6,326	
1973	114,639	123,552	86,763	12,986	4,274	95,477	43,686	2,105	1,052	45,351	3,455	3,727	76	7,108	33,213	6,438	2,695	36,956	5,884	
1974	117,135	124,049	86,396	12,054	5,132	93,310	42,035	2,218	981	43,272	2,425	123	5,040	36,188	7,271	3,485	39,953	140	538	
1975	98,447	104,244	70,039	8,766	3,963	74,837	36,307	1,243	1,049	36,501	2,237	829	134	4,927	26,948	6,171	2,543	29,022	4,248	
1976	105,842	112,047	77,066	10,401	4,210	83,271	39,634	1,422	1,186	39,930	2,379	3,475	147	5,720	30,743	5,439	2,648	33,534	3,823	
1977	114,831	121,419	79,871	10,532	4,062	86,360	42,341	1,686	1,174	42,863	2,577	3,325	116	5,805	35,441	5,443	2,553	33,331	4,106	
1978	130,318	137,110	85,798	12,054	5,266	92,590	46,172	2,172	1,170	44,546	2,605	3,677	58	6,230	36,630	5,612	2,733	37,489	5,022	
1979	140,012	145,899	88,485	11,597	5,617	94,473	46,431	1,856	1,781	46,505	2,520	3,054	60	5,522	34,420	6,621	3,000	38,041	4,531	
1980	146,207	148,317	87,579	9,435	7,329	89,690	45,632	1,446	2,405	44,663	2,209	1,788	74	3,908	34,247	6,160	4,101	36,306	5,097	
1981	143,952	146,754	80,887	9,891	7,096	83,688	37,336	1,436	2,361	36,412	2,124	2,187	98	3,820	36,618	6,207	4,219	42,498	6,172	
1982	165,942	170,097	83,255	10,175	6,004	87,410	39,845	1,041	1,904	38,982	2,690	2,757	79	5,352	35,000	6,294	3,683	37,613	5,297	
1983	174,614	180,467	95,261	13,232	7,366	101,114	43,696	1,285	2,537	42,444	2,945	3,975	83	6,824	42,570	6,435	4,355	46,104	5,544	
1984	188,108	195,367	103,420	14,479	7,241	110,679	50,672	1,617	2,173	51,596	2,920	2,917	67	6,400	43,951	6,051	4,010	49,051	5,798	
1985	184,649	193,982	103,963	16,236	6,903	113,295	47,892	1,794	1,839	47,847	2,631	2,120	73	6,768	47,011	10,103	4,324	52,791	5,925	
1986	187,288	196,469	114,765	16,902	8,785	122,883	52,281	1,581	2,463	51,529	2,729	4,296	107	6,918	52,936	10,775	5,486	58,246	6,187	
1987	185,916	194,469	117,499	18,389	9,836	126,052	56,124	2,521	3,581	52,046	2,416	2,010	419	4,008	58,908	11,133	3,283	61,748	8,118	
1988	190,357	194,419	122,607	18,656	5,736	126,669	58,446	1,546	1,754	54,214	2,863	4,257	173	6,948	51,642	10,750	5,381	57,012	6,167	
1989	194,291	194,786	128,930	15,511	15,016	129,426	59,976	1,724	1,617	57,629	2,738	2,400	199	4,939	54,539	11,171	6,288	59,442	6,786	
1990	197,007	196,143	130,500	14,358	15,223	129,636	61,249	1,143	4,010	58,382	2,682	2,000	242	4,451	54,847	11,148	6,481	59,514	6,481	
1991	210,610	204,967	127,224	13,004	18,648	121,581	55,628	1,037	3,436	52,220	2,519	1,699	320	3,988	52,765	10,232	7,463	74,968	7,333	
1992	198,932	192,407	133,572	14,486	21,012	127,046	56,714	1,282	4,592	53,404	2,416	2,010	419	4,008	58,908	11,133	3,283	61,748	8,118	
1993	195,408	191,696	139,359	16,492	20,204	135,646	60,648	1,546	4,754	57,441	2,520	2,014	357	4,177	61,210	12,863	7,967	66,106	8,265	
1994	190,805	186,772	140,328	17,500	21,533	126,295	61,399	1,822	4,951	54,214	2,850	1,883	320	4,413	63,433	13,589	5,866	67,786	5,923	
1995	200,644	196,346	149,729	19,963	24,061	145,631	62,629	1,748	2,126	59,161	3,038	2,145	326	4,856	54,533	11,171	6,288	59,442	6,786	
1996	192,403	186,177	146,839	19,077	20,302	140,614	61,228	1,859	5,376	58,311	2,982	1,908	324	4,568	67,982	15,012	10,107	72,887	4,562	
1997	190,949	185,872	150,691	21,405	26,482	145,614	62,765	2,226	6,038	58,953	3,075	2,239	334	4,981	71,146	16,677	10,796	77,027	4,392	
1998	186,339	185,832	148,911	23,204	23,866	148,793	63,045	2,707	5,230	60,522	3,174	2,495	252	5,417	69,634	17,670	12,707	74,968	4,059	
1999	186,060	187,286	148,919	25,191	23,856	150,019	64,019	3,336	5,831	61,524	3,276	2,774	247	5,798	69,634	17,670	12,707	74,968	4,059	
2000	184,460	186,725	147,262	26,993	24,614	149,527	62,395	3,920	6,413	59,902	3,560	2,720	219	6,001	68,391	19,862	8,988	79,338	3,993	
2001	174,661	179,537	142,362	20,460	21,653	154,621	52,577	2,570	5,920	55,785	4,216	3,185	226	4,856	70,751	15,824	10,359	76,217	5,151	
2002	169,709	176,597	134,560	27,642	20,590	141,902	58,211	1,643	4,010	58,015	3,934	2,192	226	4,568	67,982	15,012	10,107	72,887	4,562	
2003	163,350	175,106	128,606	28,788	17,032	140,362	52,015	3,915	5,726	50,204	3,727	3,236	320	3,988	67,982	15,012	10,107	72,887	4,562	
2004	147,761	158,857	122,443	26,946	15,850	123,540	51,905	6,907	6,298	53,952	3,223	3,236	172	4,437	38,792	7,986	6,097	44,930	3,617	
2005	147,262	159,599	162,050	114,052	120,312	149,527	62,395	5,304	6,384	54,211	3,531	4,988	311	8,240	47,430	16,575	10,051	41,232	4,232	
2006	143,853	152,523	122,175	15,896	24,661	15,912	120,312	54,680	3,764	7,051	51,293	3,194	4,937	241	7,890	46,900	15,245	5,124	32,290	
2007	144,157	148,799	127,191	16,214	20,870	15,764	114,692	52,577	2,570	5,920	49,228	2,988	4,235	211	7,011	47,111	13,305	5,727	54,689	
2008	124,861	124,802	88,938	15,392	15,451	88,879	33,727	1,782	1,782	34,724	3,347	3,610	215	6,789	44,930	10,442	6,452	48,921	3,543	
2009	120,070	119,574	82,330	12,309	12,804	81,835	34,724	1,881	1,981	34,724	3,347	3,610	176	6,057	44,930	10,442	6,452	48,921	3,543	
2010	118,023	115,867	82,466	13,176	15,896	79,803	32,558	1,696	1,696	50,923	3,194	2,891	249	4,996	42,391	12,707	114	48,921	3,543	
2011	123,895	127,191	124,036	13,060	16,214	80,870	32,484	1,517	6,504	27,497	2,488	3,160	242	5,407	41,215	8,053	6,583	42,676	3,394	
2012	123,887	129,887	134,106	13,629	18,047	84,728	36,451	1,751	1,751	30,987	2,607	3,592	248	5,951	41,215	8,012	6,583	42,676	3,394	
20																				

U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 7c—Production, imports, exports, and consumption of timber products, by major product, 1965–2017 (metric tons carbon, roundwood equivalent)<sup>a</sup>

Industrial roundwood use											
All products				Lumber				Plywood and veneer			
Year	Production	Consumption	Total	Imports	Exports	Production	Consumption	Production	Exports	Consumption	Total
1965	12,507	13,441	12,202	1,912	674	13,441	1,056	7,163	1,416	21	1,433
1966	12,767	13,656	12,462	1,956	762	13,556	1,032	195	1,484	25	1,503
1967	12,709	13,372	12,396	1,913	937	13,372	6,042	215	1,470	25	1,485
1968	13,511	14,214	13,189	2,144	1,119	14,214	1,479	234	1,281	38	1,684
1969	13,585	14,379	13,662	2,257	1,141	14,379	6,081	1,265	230	7301	1,550
1970	14,390	15,421	14,240	2,420	1,389	15,421	6,630	1,400	279	7,751	1,620
1971	14,208	15,208	13,856	2,487	1,112	15,208	6,444	1,560	211	7,793	1,876
1972	15,009	14,137	15,009	2,798	1,327	15,009	6,646	1,937	268	8,315	2,069
1973	14,500	15,940	14,265	2,817	1,492	15,900	6,780	1,947	391	8,336	2,059
1974	14,077	14,410	13,701	2,540	1,430	14,410	6,345	1,575	375	7,546	2,063
1975	13,318	13,669	12,956	2,080	1,369	13,669	6,307	1,360	344	7,323	1,795
1976	14,132	14,510	13,780	2,528	1,488	14,510	6,338	1,711	358	8,300	2,070
1977	14,533	15,920	14,223	3,057	1,361	15,920	6,006	2,237	325	8,718	2,188
1978	16,542	16,367	16,286	3,367	1,415	16,542	6,665	2,553	312	9,106	2,239
1979	15,516	16,526	14,847	3,686	1,686	16,526	6,684	2,988	402	8,869	2,175
1980	14,254	14,522	13,316	2,964	1,758	14,522	5,498	2,019	440	7,077	1,778
1981	13,322	14,100	12,770	2,872	1,542	14,100	5,262	1,982	431	6,814	1,767
1982	13,249	13,641	12,417	2,848	1,567	13,641	5,066	1,976	369	6,713	1,696
1983	14,973	15,361	14,003	3,428	1,670	15,361	6,274	2,544	381	8,427	2,070
1984	15,239	16,722	14,233	3,758	1,578	16,722	6,459	2,772	369	8,095	2,186
1985	14,988	16,259	14,589	4,031	1,695	14,589	6,126	3,075	8175	8,095	2,200
1986	16,367	17,780	15,986	3,973	1,770	17,780	7,208	2,927	413	9,127	2,239
1987	17,328	18,385	16,689	4,118	2,022	18,385	7,175	2,979	519	10,175	2,303
1988	17,380	18,046	16,861	3,849	2,363	18,046	7,679	2,730	673	9,736	2,243
1989	17,071	17,793	16,187	3,039	2,433	17,793	7,432	2,966	683	9,715	2,033
1990	16,820	17,101	15,921	3,648	2,468	17,101	7,064	2,556	761	8,859	1,989
1991	16,980	16,986	15,862	3,457	2,323	16,986	6,960	2,430	649	8,914	1,765
1992	16,216	18,818	15,361	3,645	2,159	18,818	6,264	2,618	524	8,911	1,811
1993	16,731	14,583	15,926	3,495	1,695	14,583	6,126	2,772	318	8,911	1,718
1994	15,345	17,355	16,986	3,973	1,770	17,355	6,738	2,927	424	9,035	2,072
1995	15,465	17,538	16,841	4,582	1,936	17,538	6,366	2,927	381	9,389	2,175
1996	15,380	17,624	14,866	4,625	1,867	17,624	6,567	3,561	671	9,677	2,176
1997	15,547	17,966	15,093	4,039	1,707	17,966	6,844	3,558	347	10,055	2,135
1998	15,759	17,859	16,842	5,035	4,935	16,842	6,846	3,694	233	10,307	1,631
1999	15,253	16,839	15,020	3,645	1,551	16,839	6,698	2,618	379	10,737	1,636
2000	15,560	17,839	15,057	5,234	1,519	17,839	7,100	3,844	286	10,370	1,636
2001	18,510	14,534	18,510	4,050	1,901	16,731	6,513	2,992	470	9,035	1,804
2002	15,090	14,820	14,290	4,187	1,735	14,820	6,376	2,927	424	9,035	1,804
2003	15,412	14,942	15,385	4,582	1,732	14,942	6,473	2,927	474	9,389	1,804
2004	15,350	20,061	14,873	6,332	1,244	20,061	7,713	4,187	1,790	10,307	1,397
2005	15,272	20,323	15,111	6,436	1,224	20,323	7,850	4,875	172	12,381	1,434
2006	15,272	19,986	15,073	4,935	1,707	19,986	7,644	4,498	187	12,539	1,413
2007	17,973	14,228	15,973	5,029	1,384	17,973	6,941	3,634	206	10,370	1,187
2008	14,347	12,967	12,951	3,759	1,519	17,973	6,941	3,634	247	8,025	977
2009	11,887	12,467	11,377	2,759	1,499	12,467	5,762	4,592	204	10,593	96
2010	12,589	13,219	12,054	2,941	1,777	13,219	6,900	4,097	1,417	11,200	1,417
2011	13,226	13,903	12,686	2,907	1,732	14,942	6,503	4,281	1,487	12,426	1,487
2012	13,842	14,335	13,045	2,076	1,562	14,335	6,580	4,184	1,399	13,226	1,487
2013	14,420	14,457	13,734	3,403	1,969	14,457	6,986	4,839	1,987	14,420	1,487
2014	14,713	15,583	14,081	3,712	2,210	15,583	6,744	4,998	1,729	15,583	1,487
2015	14,820	16,672	14,164	3,950	2,042	16,672	6,524	2,759	318	8,765	1,505
2016	15,576	16,881	14,470	4,470	2,045	16,881	6,244	3,228	36	9,236	1,505
2017	15,337	17,682	14,882	4,362	2,131	17,682	6,244	3,228	54	10,955	1,505

<sup>a</sup> Includes cooperage logs, poles and piling, fence posts, lawn trees, round mine timber, box bolts, chemical wood, shingle bolts, and miscellaneous items.

<sup>b</sup> Prior to 1989, pulpwood chips are not included in total production.

<sup>c</sup> Not Available.

<sup>d</sup> Log s.

<sup>e</sup> Log s.

<sup>f</sup> Log s.

<sup>g</sup> Log s.

<sup>h</sup> Log s.

<sup>i</sup> Log s.

<sup>j</sup> Log s.

<sup>k</sup> Log s.

<sup>l</sup> Log s.

<sup>m</sup> Log s.

<sup>n</sup> Log s.

<sup>o</sup> Log s.

<sup>p</sup> Log s.

<sup>q</sup> Log s.

<sup>r</sup> Log s.

<sup>s</sup> Log s.

<sup>t</sup> Log s.

<sup>u</sup> Log s.

<sup>v</sup> Log s.

<sup>w</sup> Log s.

<sup>x</sup> Log s.

<sup>y</sup> Log s.

<sup>z</sup> Log s.

<sup>aa</sup> Log s.

<sup>bb</sup> Log s.

<sup>cc</sup> Log s.

<sup>dd</sup> Log s.

<sup>ee</sup> Log s.

<sup>ff</sup> Log s.

<sup>gg</sup> Log s.

<sup>hh</sup> Log s.

<sup>ii</sup> Log s.

<sup>jj</sup> Log s.

<sup>kk</sup> Log s.

<sup>ll</sup> Log s.

<sup>mm</sup> Log s.

<sup>nn</sup> Log s.

<sup>oo</sup> Log s.

<sup>pp</sup> Log s.

<sup>qq</sup> Log s.

<sup>rr</sup> Log s.

<sup>ss</sup> Log s.

<sup>tt</sup> Log s.

<sup>uu</sup> Log s.

<sup>vv</sup> Log s.

<sup>ww</sup> Log s.

<sup>xx</sup> Log s.

<sup>yy</sup> Log s.

<sup>zz</sup> Log s.

<sup>aa</sup> Log s.

<sup>bb</sup> Log s.

<sup>cc</sup> Log s.

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<sup>aa</sup> Log s.

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<sup>ii</sup> Log s.

<sup>jj</sup> Log s.

<sup>kk</sup> Log s.

<sup>ll</sup> Log s.

<sup>mm</sup> Log s.

<sup>nn</sup> Log s.



U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 8b—Production, imports, exports, and consumption of timber products (excludes additives and fillers) in tons by major product, 1965–2017 (thousand metric tons,<sup>a</sup> air-dry weight of wood)<sup>b</sup>

The weight of wood in products

Year	All products				Lumber <sup>c</sup>				Plywood and veneer <sup>d</sup>				Panel products <sup>e</sup>				Wood pulp <sup>f</sup>				Other industrial products, production and consumption <sup>g</sup>				Logs <sup>h</sup>				Pulpwood chip			
	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption	Production	Consumption		
1965	111,188	119,422	94,712	14,613	6,379	102,946	42,142	4,836	902	46,077	6,198	626	18	8,060	2,063	224	2,065	33,203	8,773	2,660	39,316	7,729	153	2,687	z	91	16,476					
1966	115,016	123,180	95,509	15,564	7,470	103,238	42,257	4,863	1,002	46,118	6,463	749	47	8,034	2,080	21	3,013	35,730	8,390	2,941	42,345	7,798	215	3,128	z	272	16,920					
1967	120,158	97,795	14,913	16,439	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913	14,913				
1968	123,706	127,302	105,404	16,439	109,936	41,008	5,658	1,099	45,567	7,105	1,129	40	8,194	3,672	246	3,088	33,376	9,228	4,939	41,166	7,108	173	4,435	z	635	17,428						
1969	128,832	130,455	107,995	17,775	12,633	119,986	40,124	5,852	1,085	44,881	6,848	1,263	108	7,402	3,425	42	4,435	41,385	10,059	5,014	47,381	7,389	184	5,389	z	1,361	17,480					
1970	128,161	129,948	108,982	16,748	14,961	109,869	38,739	5,617	1,180	43,768	6,848	1,221	91	7,978	4,183	191	4,328	40,626	9,395	5,007	45,007	8,989	325	6,164	z	2,523	20,079					
1971	131,357	136,915	111,796	18,372	12,814	117,344	41,244	6,934	1,069	47,109	7,861	1,516	58	9,320	5,331	258	55	5,534	41,829	9,475	4,300	46,915	8,309	189	5,147	z	2,084	19,571				
1972	138,714	141,839	118,856	18,955	123,680	42,185	6,921	1,144	49,392	8,613	1,684	125	10,372	6,360	209	67,009	6,700	44,565	49,943	7,136	688	7,064	z	20,188	19,079							
1973	141,413	145,125	122,522	14,482	15,912	17,440	12,334	43,225	8,804	1,873	50,156	8,490	1,510	226	9,774	6,888	412	92	7,208	46,129	10,765	4,499	52,385	6,832	0	7,570	z	3,631	19,079			
1974	136,943	142,237	15,091	15,889	102,925	36,377	5,440	1,566	40,252	7,168	1,146	4,761	2,787	308	6,962	1,177	281	124	6,333	45,811	11,112	5,168	50,907	5,907	172	5,942	z	20,888	19,983			
1975	123,706	129,208	103,723	16,622	116,723	18,331	17,288	40,175	7,785	1,410	4,000	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410	1,410				
1976	136,278	136,843	122,115	18,896	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15	121,15					
1977	144,783	148,678	124,977	18,920	126,010	42,898	6,984	1,624	50,959	8,611	1,352	1,830	9,780	7,596	292	1,044	7,784	46,422	13,277	6,744	51,744	5,176	347	6,903	z	3,471	22,668					
1978	154,456	160,578	124,978	24,352	18,230	131,100	43,929	53,165	8,853	1,516	165	10,203	7,869	408	78	8,189	47,435	11,188	4,700	53,923	5,452	216	7,667	z	3,774	29,478						
1979	162,773	165,522	121,205	130,192	21,394	43,906	52,208	8,106	1,247	216	9,737	7,893	3,900	73	7,710	48,331	15,922	5,260	54,663	5,590	289	8,763	z	3,590	35,390							
1980	161,042	170,402	119,404	21,456	22,118	15,053	18,073	38,873	8,904	2,515	45,262	7,278	732	208	6,341	280	78	12,141	7,864	166	7,982	1,738	287	7,333	z	4,672	41,989					
1981	156,828	162,289	20,784	14,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091	15,091					
1982	166,933	168,329	116,933	17,339	182,218	123,415	19,986	28,295	41,467	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293	12,293					
1983	188,447	188,249	130,865	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868	19,868					
1984	188,005	190,199	142,774	19,740	139,740	48,474	10,493	12,953	44,917	12,253	54,933	9,003	1,501	205	10,299	6,883	722	66	7,549	53,520	13,277	6,420	52,325	6,280	330	7,859	z	3,426	57,549			
1985	182,531	192,606	122,701	29,810	19,745	137,776	44,266	13,480	52,924	9,018	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849	1,849					
1986	191,355	201,266	135,157	30,768	21,398	145,188	48,323	13,745	60,000	9,048	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921	1,921					
1987	190,165	194,490	148,468	23,960	152,670	42,672	12,367	26,363	51,451	11,724	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624	6,624					
1988	198,448	198,938	196,038	16,622	130,001	151,397	53,943	13,703	4,208	6,439	9,623	1,177	783	10,018	7,618	247	5,246	11,447	9,956	47,325	10,939	5,599	46,039	15,456	2,596	45,237	14,471					
1989	194,250	194,100	149,220	26,951	29,501	148,070	52,745	11,727	5,554	1,247	9,544	7,476	8,670	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466				
1990	194,250	196,371	142,633	26,951	29,501	148,070	52,745	11,727	5,554	1,247	9,544	7,476	8,670	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466	7,466					
1991	177,122	181,222	181,222	18,966	144,560	38,603	33,018	52,269	16,589	3,375	4,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833	3,833					
1992	186,009	187,809	137,935	14,318	54,327	43,477	27,477	52,366	48,474	10,493	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726	6,726						
1993	185,917	185,536	145,374	42,777	28,750	159,743	52,366	11,793	3,008	5,352	6,498	3,924	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294	7,294					
1994	185,801	185,294	145,579	44,882	29,606	159,056	53,349	13,493	4,265	5,365	6,896	4,265	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959	8,959					
1995	180,656	184,332	144,904	31,730	36,304	142,211	30,808	4,235	40,765	18,744	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236						
1996	175,744	184,250	141,203	21,320	187,038	53,765	27,477	33,158	52,366	16,589	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375						
1997	173,543	181,491	136,989	22,310	187,038	53,765	27,477	33,158	52,366	16,589	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375						
1998	178,122	180,346	143,186	31,320	187,038	53,765	27,477	33,158	52,366	16,589	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375						
1999	177,167	184,867	134,867</																													

Table 9—U.S. annual industrial wood product production in thousands of short tons, product weight, 1965–2017<sup>a</sup>

Year	Total	Softwood plywood <sup>b</sup>	Oriented strandboard <sup>b</sup>	Laminated veneer lumber <sup>b</sup>	Hardwood plywood and veneer <sup>c</sup>	Softwood lumber <sup>d</sup>	Hardwood lumber <sup>d</sup>	Lumber made at pallet plants <sup>e</sup>	Particleboard production <sup>f</sup>	Hardboard production <sup>g</sup>	Medium-density fiberboard production <sup>h</sup>	Pulp paper and board <sup>i</sup>	Other industrial products, production and consumption <sup>j</sup>	Insulating board <sup>k</sup>
1965	108,868	6,807	z	z	1,345	28,599	15,929	171	1,059	913	105	43,465	9,240	1,234
1966	113,194	7,140	z	z	1,362	28,162	16,488	203	1,333	964	117	46,971	9,323	1,131
1967	110,997	7,086	z	z	1,257	27,503	15,712	204	1,510	949	130	46,969	8,498	1,178
1968	116,505	8,036	z	z	1,318	28,589	14,740	225	1,956	1,160	145	50,561	8,498	1,276
1969	119,987	7,489	z	z	1,227	27,669	14,727	262	2,365	1,327	161	53,530	9,900	1,330
1970	119,523	7,842	z	z	1,179	26,876	14,057	247	2,434	1,370	179	53,408	10,758	1,173
1971	124,453	9,097	z	z	1,263	29,326	14,254	270	3,317	1,633	198	53,753	9,933	1,410
1972	130,569	10,021	z	z	1,332	30,239	14,334	303	4,330	1,812	220	58,009	8,531	1,439
1973	134,386	10,011	z	z	1,186	30,836	14,837	363	4,866	1,891	245	60,548	8,168	1,437
1974	126,340	8,683	z	z	919	27,046	14,257	402	4,324	1,767	272	60,403	7,062	1,205
1975	113,646	8,777	z	z	690	26,112	12,325	312	3,520	1,775	302	52,393	6,353	1,087
1976	128,233	10,084	z	z	711	29,873	13,462	383	4,485	2,120	394	59,283	6,188	1,251
1977	134,926	10,596	z	z	779	31,923	14,343	462	5,019	2,411	620	61,149	6,353	1,271
1978	139,305	10,918	z	z	778	32,704	15,120	529	5,231	2,445	714	63,085	6,518	1,262
1979	141,932	10,748	z	z	755	32,509	15,706	580	4,748	2,402	713	65,873	6,683	1,215
1980	134,084	8,932	84	53	681	27,530	15,452	505	4,148	1,919	693	66,217	6,848	1,021
1981	129,344	9,161	169	70	641	24,797	12,622	494	4,035	1,908	726	66,931	7,013	780
1982	124,212	8,666	348	70	909	23,222	13,494	447	3,365	1,746	627	63,483	7,178	657
1983	141,762	10,653	838	88	971	29,020	14,794	505	4,231	2,282	849	69,352	7,343	836
1984	150,006	10,897	1,276	88	988	30,434	17,027	591	4,494	2,137	892	72,742	7,508	934
1985	148,775	11,030	1,668	123	881	30,577	16,196	650	4,684	1,969	963	71,459	7,673	904
1986	160,772	12,096	2,196	140	912	34,435	17,680	721	5,067	1,819	1,098	75,964	7,838	806
1987	170,449	12,523	2,548	158	1,000	37,415	19,006	797	5,212	1,705	1,264	79,830	8,168	823
1988	174,787	12,359	2,878	193	1,019	37,224	19,813	876	5,385	1,599	1,320	82,847	8,415	859
1989	175,777	11,695	3,191	210	1,011	36,653	20,345	943	5,425	1,624	1,364	83,257	9,158	901
1990	176,550	11,440	3,386	280	1,009	34,941	20,792	996	5,352	1,570	1,336	85,307	9,273	868
1991	171,867	10,200	3,508	280	982	32,373	18,847	1,005	5,304	1,530	1,347	86,546	9,092	853
1992	179,502	10,572	4,158	298	934	33,706	19,276	1,046	5,597	1,648	1,499	90,885	9,016	868
1993	180,831	10,563	4,376	368	992	32,165	20,620	960	5,964	1,640	1,633	92,154	8,532	866
1994	185,905	10,740	4,679	403	1,182	33,297	20,900	863	6,387	1,627	1,759	96,595	6,617	857
1995	185,630	10,591	4,939	490	1,209	31,467	21,337	768	5,906	1,541	1,557	98,582	6,386	857
1996	186,758	10,490	5,821	560	1,171	32,476	21,074	660	6,270	1,650	1,752	98,334	5,643	857
1997	193,114	9,824	6,584	665	1,229	33,844	21,386	733	6,372	1,407	1,948	102,822	5,445	857
1998	191,746	9,721	7,017	718	1,288	33,853	21,480	744	6,459	1,344	1,970	101,262	5,033	857
1999	196,307	9,743	7,258	838	1,323	35,736	21,814	735	6,773	1,371	1,987	102,955	4,917	857
2000	193,159	9,557	7,441	833	1,487	35,110	21,259	735	6,756	1,182	2,093	100,900	4,950	857
2001	182,836	8,269	7,833	935	1,381	33,760	19,970	735	5,760	1,038	1,946	95,080	5,273	857
2002	185,987	8,313	8,391	982	1,376	34,979	19,828	735	6,207	912	2,280	95,890	5,238	857
2003	182,803	8,042	8,509	1,181	1,343	35,738	17,709	735	5,603	1,345	2,261	94,232	5,247	857
2004	191,271	8,020	8,919	1,510	1,327	38,147	18,662	735	6,053	1,212	2,457	98,124	5,247	857
2005	191,576	7,837	9,366	1,586	1,311	38,825	18,829	735	5,781	1,358	2,588	97,256	5,247	857
2006	189,022	7,343	9,350	1,402	1,188	37,806	18,586	735	5,702	1,209	2,610	98,025	4,208	857
2007	182,854	6,695	9,227	1,185	1,162	34,323	17,901	735	4,982	1,035	2,656	97,795	4,300	857
2008	162,841	5,598	8,127	823	1,115	28,484	11,453	735	4,101	911	2,400	93,844	4,392	857
2009	143,476	4,708	5,999	516	1,040	22,688	11,794	735	3,085	696	2,350	84,524	4,485	857
2010	148,254	4,994	6,437	649	985	24,213	9,550	735	3,216	849	2,000	89,193	4,577	857
2011	150,092	4,911	6,274	667	1,017	26,119	11,053	735	3,221	771	2,053	87,744	4,670	857
2012	153,236	5,021	6,899	807	1,051	27,585	11,028	735	3,220	688	2,053	87,141	4,151	857
2013	158,986	5,111	7,808	936	1,074	29,270	12,385	735	3,264	781	2,429	86,703	7,633	857
2014	162,840	4,914	8,130	1,050	1,051	30,742	14,040	735	3,358	791	2,344	85,713	9,115	857
2015	164,503	4,786	8,302	1,075	1,112	31,267	13,966	735	3,417	785	2,355	85,249	10,596	857
2016	166,440	4,817	8,701	1,138	1,188	31,762	14,013	735	3,298	840	2,446	84,567	12,078	857
2017	169,850	4,936	9,131	1,272	1,188	33,083	14,020	735	3,171	843	2,383	84,670	13,560	857

<sup>a</sup>Sources for recent production data (some earlier data are Forest Service estimates or from Dept. of Commerce).<sup>b</sup>APA – The Engineered Wood Association (11).<sup>c</sup>Dept. of Commerce (to 1988); 1989–1990 data from Hardwood Plywood & Veneer Association; later estimates based on trends in value of shipments (Dept. of Commerce); hardwood veneer based on Census of Manufactures data and trend in value of shipments.<sup>d</sup>1965–1976 based on Commerce Department data and Forest Service estimates; 1976–1998 American Forest & Paper Association (AF&PA)<sup>e</sup>Statistical Roundup (4) (1996 hardwood estimated by Forest Service; 1997–1998 hardwood estimate from Miller Freeman). Hardwood Market Report (19a): 2008–present. [Note that Commerce Dept. reported hardwood lumber production is understood to underestimate actual production as reflected in Forest Service estimates since 1900.]<sup>f</sup>Forest Service estimate of lumber cut from roundwood at pallet plants.<sup>g</sup>Other lumber (e.g., purchased lumber) used by pallet makers is accounted for under hardwood and softwood lumber production.<sup>h</sup>Composite Panel Association (based on production data 1959–1977, and 1995–1997; otherwise based on shipments; 1998 data are estimated) (15).<sup>i</sup>Shipments data from American Hardboard Association (1965–1997) and as reported by Miller Freeman (1998); 1998 figure is estimated (8).<sup>j</sup>AF&PA, formerly API (Statistics of Paper, Paperboard & Woodpulp) (5). Paper and paperboard production includes "Total Paper", "Total Paperboard", and "Building Paper" production.<sup>k</sup>Total production of pulp, paper and paperboard includes market pulp produced for export.<sup>l</sup>Data through 1988 was obtained from U.S. Timber Production, Trade, Consumption, and Price Statistics reports (USDA Forest Service).<sup>m</sup>Miscellaneous wood product production for 1996 based on timber product output tables in (draft) 1997 RPA Inventory Data Tables; intervening and subsequent data are extrapolated.<sup>n</sup>Derived using earlier data from Commerce Department MA26A reports (in square feet of product output) to convert tonnage reported in AF&PA and earlier API reports.<sup>o</sup>Not Available.

Table 10—Industrial wood productivity, 1965–2017<sup>a</sup>

Year	Industrial wood productivity (industrial wood product output per unit of roundwood input)	Total industrial wood product production (from Table 9)	Roundwood equivalents of production						Recovered paper utilization rate (percent) <sup>e</sup>	U.S. population	Per capita industrial wood product production		
			Hardwoods <sup>b</sup>	Softwoods <sup>c</sup>	Totals								
					Million ft <sup>3</sup>	Million ft <sup>3</sup>	Million ft <sup>3</sup>	Thousand short tons <sup>d</sup>	Thousand metric tons				
Year	lb/ft <sup>3</sup>	Tons/ton	Thousand tons	Million ft <sup>3</sup>	Million ft <sup>3</sup>	Million ft <sup>3</sup>	Million ft <sup>3</sup>	Thousand short tons <sup>d</sup>	Thousand metric tons	Millions	lb/capita		
1965	19.28	0.6929	108,261	2,912	8,319	11,230	156,247	141,744	23.5%	194.3	1,114		
1966	19.52	0.7007	112,432	3,045	8,476	11,520	160,461	145,567	22.6%	196.6	1,144		
1967	19.44	0.6991	110,134	2,900	8,432	11,332	157,547	142,924	21.2%	198.7	1,109		
1968	19.54	0.7052	115,421	2,842	8,972	11,814	163,678	148,485	20.4%	200.7	1,150		
1969	19.85	0.7149	118,703	2,979	8,983	11,963	166,052	150,639	22.1%	202.7	1,171		
1970	18.24	0.6571	118,211	3,211	9,752	12,963	179,886	163,189	22.4%	205.1	1,153		
1971	19.94	0.7206	122,665	2,895	9,405	12,300	170,218	154,419	22.4%	207.7	1,181		
1972	20.40	0.7376	128,216	2,935	9,632	12,567	173,840	157,704	22.1%	209.9	1,222		
1973	20.59	0.7433	131,730	3,064	9,731	12,795	177,225	160,775	23.4%	211.9	1,243		
1974	20.08	0.7235	123,996	3,051	9,301	12,352	171,383	155,475	24.8%	213.9	1,159		
1975	19.76	0.7165	111,787	2,473	8,844	11,317	156,016	141,534	24.2%	216.0	1,035		
1976	20.80	0.7533	125,859	2,722	9,381	12,102	167,078	151,570	24.9%	218.0	1,155		
1977	21.12	0.7647	132,289	2,821	9,709	12,529	172,986	156,929	25.4%	220.2	1,202		
1978	21.12	0.7633	136,542	3,030	9,900	12,930	178,891	162,286	24.8%	222.6	1,227		
1979	21.09	0.7620	139,443	3,125	10,096	13,221	182,998	166,012	25.7%	225.1	1,239		
1980	21.85	0.7857	131,899	3,093	8,981	12,074	167,867	152,286	26.7%	227.7	1,159		
1981	22.22	0.8002	127,276	2,856	8,601	11,458	159,052	144,289	26.1%	230.0	1,107		
1982	21.66	0.7782	122,574	2,940	8,380	11,320	157,505	142,886	26.4%	232.2	1,056		
1983	21.72	0.7803	139,888	3,364	9,515	12,879	179,269	162,629	26.3%	234.3	1,194		
1984	22.16	0.7938	148,099	3,652	9,716	13,368	186,568	169,251	26.7%	236.3	1,253		
1985	21.92	0.7852	146,873	3,671	9,729	13,400	187,048	169,686	26.8%	238.5	1,232		
1986	21.69	0.7764	158,793	4,053	10,591	14,644	204,535	185,550	28.2%	240.7	1,319		
1987	21.90	0.7853	168,479	4,149	11,235	15,385	214,546	194,632	28.8%	242.8	1,388		
1988	22.13	0.7921	172,817	4,330	11,288	15,618	218,165	197,915	30.5%	245.0	1,411		
1989	22.12	0.7897	173,912	4,553	11,169	15,722	220,233	199,791	31.7%	247.3	1,406		
1990	22.44	0.8000	174,796	4,609	10,968	15,577	218,500	198,219	33.5%	249.9	1,399		
1991	22.41	0.7989	170,201	4,493	10,694	15,187	213,032	193,259	36.6%	252.7	1,347		
1992	23.39	0.8311	177,932	4,717	10,498	15,215	214,088	194,217	38.4%	255.4	1,393		
1993	24.02	0.8498	179,125	4,921	9,992	14,914	210,784	191,219	38.7%	258.1	1,388		
1994	24.28	0.8594	184,058	4,956	10,209	15,164	214,175	194,295	41.5%	260.7	1,412		
1995	23.83	0.8409	184,152	5,288	10,166	15,454	219,002	198,674	44.0%	263.0	1,400		
1996	24.17	0.8536	185,428	5,186	10,158	15,344	217,241	197,077	45.6%	265.5	1,397		
1997	24.51	0.8653	191,964	5,322	10,340	15,662	221,839	201,248	44.2%	267.9	1,433		
1998	24.48	0.8647	190,698	5,259	10,319	15,577	220,533	200,063	44.6%	270.3	1,411		
1999	25.34	0.8858	197,420	5,255	10,328	15,583	220,593	200,118	44.5%	273.2	1,445		
2000	25.01	0.8840	194,210	5,201	10,327	15,528	219,707	199,313	46.0%	282.1	1,377		
2001	24.96	0.8835	184,844	4,857	9,953	14,810	209,218	189,798	48.3%	284.8	1,298		
2002	25.49	0.8983	188,404	4,762	10,021	14,783	208,578	189,218	48.1%	287.5	1,311		
2003	24.75	0.8798	182,803	4,542	10,233	14,774	207,771	188,485	50.3%	291.1	1,256		
2004	26.89	0.9620	191,271	3,971	10,257	14,228	198,827	180,372	49.5%	294.0	1,301		
2005	26.55	0.9498	191,576	4,028	10,406	14,434	201,706	182,984	51.5%	296.7	1,291		
2006	26.76	0.9576	189,022	3,940	10,185	14,125	197,387	179,065	53.0%	289.8	1,305		
2007	26.66	0.9531	182,854	3,886	9,830	13,716	191,861	174,052	56.0%	301.7	1,212		
2008	27.12	0.9742	162,841	3,141	8,868	12,008	167,158	151,643	57.7%	304.5	1,070		
2009	26.98	0.9666	143,476	2,907	7,728	10,635	148,435	134,657	63.4%	307.2	934		
2010	26.94	0.9698	148,254	2,771	8,235	11,006	152,871	138,682	63.5%	309.8	957		
2011	25.91	0.9327	150,092	2,914	8,672	11,587	160,923	145,986	66.8%	312.0	962		
2012	25.44	0.9170	153,236	2,967	9,079	12,046	167,110	151,599	65.1%	314.3	975		
2013	25.34	0.9125	158,986	3,148	9,399	12,547	174,234	158,062	63.5%	316.6	1,004		
2014	25.14	0.9041	162,840	3,324	9,630	12,954	180,114	163,396	65.4%	318.9	1,021		
2015	25.07	0.9008	164,503	3,409	9,715	13,124	182,613	165,663	66.8%	321.3	1,024		
2016	24.97	0.8983	166,440	3,403	9,925	13,329	185,281	168,083	67.2%	323.7	1,028		
2017	24.90	0.8959	169,850	3,463	10,181	13,643	189,587	171,989	65.8%	325.9	1,042		

<sup>a</sup>U.S. Department of Agriculture, Forest Products Laboratory (21); American Forest & Paper Association (3).<sup>b</sup>The average specific gravity for hardwood is 0.52.<sup>c</sup>The average specific gravity for softwood is 0.42.<sup>d</sup>The weight density of a cubic foot of water in pounds is 62.4. Example: ((0.52\*62.4/2000)+(0.42\*62.4/2000))\*1000.<sup>e</sup>Utilization Rate is the ratio of recovered paper consumption to total production of paper and board.

Table 11a—Per capita consumption of timber products, by major product, 1965–2017<sup>a</sup>

Year	Industrial roundwood used for												
	All products		Total roundwood		Lumber		Plywood and veneer		Pulp products		Other industrial products <sup>b</sup>	Fuelwood	
	Cubic feet	Cubic feet	Cubic feet	Board feet (lumber tally)	Cubic feet	Board feet (local log rule)	Cubic feet	Cords	Cubic feet	Cubic feet		Cubic feet	Cords
1965	68.5	63.2	35.6	193	5.9	27	18.9	0.2	2.9	5.3	0.067		
1966	69.2	63.9	35.0	190	6.1	28	19.9	0.2	2.9	5.3	0.066		
1967	66.7	61.3	33.6	183	5.9	27	19.2	0.2	2.6	5.4	0.067		
1968	68.9	63.4	34.4	187	6.8	31	19.8	0.2	2.6	5.5	0.068		
1969	69.5	64.1	33.4	182	6.3	29	21.4	0.3	3.0	5.4	0.068		
1970	73.8	67.6	35.9	196	6.4	30	22.1	0.3	3.2	6.2	0.077		
1971	70.9	65.0	34.7	189	7.4	34	20.0	0.3	2.9	5.9	0.074		
1972	72.2	66.1	36.2	197	8.1	37	19.4	0.2	2.5	6.1	0.076		
1973	71.8	66.1	36.3	197	7.7	35	19.8	0.2	2.3	5.7	0.071		
1974	68.5	62.4	32.9	179	6.3	29	21.2	0.3	2.0	6.2	0.077		
1975	61.2	55.4	30.7	167	6.2	29	16.7	0.2	1.8	5.8	0.073		
1976	65.3	59.7	32.2	175	7.2	33	18.6	0.2	1.7	5.7	0.071		
1977	69.7	63.2	35.8	195	7.6	35	18.1	0.2	1.7	6.5	0.081		
1978	73.9	65.5	36.9	201	7.8	36	19.1	0.2	1.8	8.3	0.104		
1979	74.7	64.8	35.4	193	7.3	34	20.3	0.3	1.8	9.9	0.124		
1980	68.6	57.0	29.6	161	5.8	27	19.8	0.2	1.8	11.6	0.145		
1981	66.5	54.3	27.2	148	5.7	26	19.5	0.2	1.8	12.2	0.153		
1982	68.2	53.0	27.0	147	5.6	26	18.5	0.2	1.9	15.2	0.191		
1983	75.5	61.0	32.6	178	6.9	32	19.6	0.2	1.9	14.5	0.181		
1984	79.4	64.1	34.8	189	6.9	32	20.5	0.3	1.9	15.3	0.192		
1985	79.2	64.7	35.1	191	6.9	32	20.7	0.3	1.9	14.5	0.181		
1986	83.1	68.5	37.0	201	7.3	34	22.2	0.3	2.0	14.7	0.183		
1987	82.7	70.6	38.6	210	7.5	35	22.5	0.3	2.0	12.1	0.151		
1988	80.4	68.5	36.8	200	7.1	33	22.6	0.3	2.1	11.8	0.148		
1989	79.1	67.6	36.9	201	5.9	27	22.5	0.3	2.2	11.5	0.144		
1990	76.4	64.8	34.1	186	5.6	26	22.8	0.3	2.2	11.6	0.145		
1991	76.3	61.9	32.5	177	5.0	23	22.2	0.3	2.2	14.4	0.180		
1992	73.6	62.4	32.9	179	5.0	23	22.3	0.3	2.1	11.2	0.139		
1993	72.2	62.8	33.4	182	5.0	23	22.3	0.3	2.0	9.5	0.118		
1994	72.3	63.9	34.6	188	5.1	23	22.7	0.3	1.5	8.4	0.106		
1995	73.1	64.9	34.0	185	5.0	23	24.4	0.3	1.5	8.2	0.102		
1996	71.2	64.0	34.6	188	4.9	22	23.2	0.3	1.3	7.2	0.091		
1997	71.3	64.9	35.2	191	4.6	21	24.0	0.3	1.2	6.3	0.079		
1998	72.1	66.1	35.7	194	4.7	22	24.5	0.3	1.1	6.0	0.075		
1999	71.9	66.0	36.6	199	4.8	22	23.5	0.3	1.1	5.9	0.074		
2000	69.7	63.9	35.1	191	4.6	21	23.2	0.3	1.1	5.7	0.072		
2001	67.6	61.9	34.1	185	4.3	20	22.4	0.3	1.1	5.7	0.071		
2002	67.3	62.0	34.8	189	4.4	20	21.7	0.3	1.1	5.3	0.066		
2003	67.8	62.6	34.2	186	4.3	20	22.9	0.3	1.1	5.2	0.065		
2004	66.8	61.6	37.1	202	4.7	22	18.6	0.2	1.1	5.2	0.065		
2005	67.1	61.9	37.3	203	4.7	22	18.8	0.2	1.1	5.2	0.065		
2006	65.7	60.8	36.3	198	4.5	21	19.2	0.2	0.9	4.9	0.061		
2007	58.9	54.0	30.8	168	3.7	17	18.5	0.2	0.9	4.9	0.062		
2008	49.2	44.0	22.8	124	2.9	13	17.5	0.2	0.9	5.1	0.064		
2009	42.5	37.1	18.3	100	2.4	11	15.5	0.2	0.9	5.4	0.067		
2010	43.0	37.4	18.1	98	2.5	11	15.9	0.2	0.9	5.6	0.070		
2011	44.0	38.2	19.1	104	2.5	11	15.7	0.2	0.9	5.8	0.072		
2012	45.8	39.8	19.8	108	2.5	12	16.2	0.2	1.2	6.0	0.075		
2013	47.4	41.2	21.4	117	2.7	12	15.6	0.2	1.5	6.2	0.077		
2014	49.5	43.1	23.1	126	2.7	12	15.6	0.2	1.7	6.4	0.080		
2015	50.6	44.0	23.9	130	2.8	13	15.3	0.2	2.0	6.6	0.082		
2016	52.2	45.4	24.8	135	2.9	13	15.4	0.2	2.3	6.8	0.085		
2017	52.4	45.5	24.8	135	3.0	14	15.2	0.2	2.5	7.0	0.087		

<sup>a</sup>U.S. Department of Agriculture, Forest Service (48).

Data may not add to totals because of rounding.

<sup>b</sup>Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

**Table 11b—Per capita consumption of timber products, by major product,  
1965–2017 (cubic meters)<sup>a</sup>**

Year	Industrial roundwood used for						
	All products	Total roundwood	Lumber	Plywood and veneer	Pulp products	Other industrial products <sup>b</sup>	
1965	1.940	1.789	1.007	0.166	0.534	0.082	0.151
1966	1.958	1.808	0.991	0.172	0.564	0.081	0.150
1967	1.888	1.736	0.950	0.167	0.545	0.073	0.152
1968	1.951	1.796	0.973	0.191	0.559	0.073	0.155
1969	1.968	1.814	0.947	0.178	0.605	0.084	0.154
1970	2.089	1.914	1.018	0.182	0.625	0.090	0.175
1971	2.009	1.840	0.982	0.209	0.567	0.082	0.168
1972	2.044	1.873	1.024	0.229	0.549	0.070	0.171
1973	2.032	1.872	1.027	0.218	0.561	0.066	0.161
1974	1.940	1.766	0.931	0.179	0.600	0.057	0.174
1975	1.733	1.568	0.869	0.175	0.472	0.050	0.165
1976	1.850	1.690	0.912	0.203	0.526	0.049	0.160
1977	1.974	1.790	1.013	0.215	0.512	0.050	0.184
1978	2.092	1.855	1.045	0.220	0.540	0.050	0.236
1979	2.116	1.835	1.002	0.207	0.575	0.051	0.280
1980	1.943	1.614	0.838	0.164	0.560	0.052	0.329
1981	1.883	1.536	0.770	0.163	0.551	0.052	0.347
1982	1.932	1.501	0.765	0.159	0.523	0.053	0.432
1983	2.139	1.729	0.924	0.196	0.555	0.054	0.411
1984	2.248	1.814	0.985	0.195	0.580	0.055	0.434
1985	2.242	1.832	0.995	0.196	0.585	0.055	0.410
1986	2.354	1.938	1.049	0.206	0.628	0.056	0.416
1987	2.342	2.000	1.093	0.213	0.637	0.058	0.342
1988	2.276	1.941	1.042	0.200	0.640	0.059	0.335
1989	2.240	1.914	1.045	0.168	0.637	0.064	0.326
1990	2.165	1.836	0.966	0.160	0.646	0.064	0.329
1991	2.161	1.754	0.921	0.141	0.630	0.062	0.407
1992	2.083	1.767	0.931	0.143	0.633	0.061	0.316
1993	2.045	1.777	0.946	0.142	0.632	0.057	0.268
1994	2.049	1.809	0.979	0.144	0.643	0.044	0.239
1995	2.069	1.838	0.963	0.142	0.691	0.042	0.231
1996	2.016	1.811	0.980	0.138	0.657	0.036	0.205
1997	2.018	1.839	0.996	0.129	0.679	0.035	0.180
1998	2.043	1.872	1.012	0.134	0.694	0.032	0.171
1999	2.036	1.868	1.037	0.135	0.665	0.031	0.168
2000	1.973	1.810	0.993	0.129	0.658	0.030	0.163
2001	1.913	1.752	0.964	0.122	0.634	0.032	0.161
2002	1.906	1.756	0.986	0.124	0.615	0.031	0.150
2003	1.919	1.771	0.969	0.122	0.650	0.031	0.147
2004	1.893	1.744	1.052	0.134	0.528	0.031	0.148
2005	1.900	1.752	1.056	0.134	0.532	0.030	0.148
2006	1.860	1.723	1.029	0.126	0.542	0.025	0.138
2007	1.668	1.528	0.873	0.105	0.525	0.024	0.140
2008	1.393	1.247	0.646	0.082	0.494	0.025	0.146
2009	1.203	1.051	0.519	0.067	0.439	0.025	0.152
2010	1.216	1.059	0.512	0.069	0.452	0.025	0.158
2011	1.245	1.081	0.540	0.069	0.446	0.026	0.164
2012	1.296	1.127	0.562	0.072	0.459	0.034	0.170
2013	1.341	1.166	0.607	0.076	0.441	0.041	0.175
2014	1.401	1.220	0.654	0.076	0.441	0.049	0.181
2015	1.432	1.246	0.676	0.079	0.434	0.057	0.187
2016	1.478	1.286	0.704	0.081	0.437	0.064	0.192
2017	1.485	1.287	0.703	0.084	0.429	0.071	0.198

<sup>a</sup>U.S. Department of Agriculture, Forest Service (34).

Data may not add to totals because of rounding.

<sup>b</sup>Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

Table 12—Consumption of selected timber products and other materials used in construction, manufacturing, and shipping, 1965–2017<sup>a</sup>

Year	Lumber												Plywood			
	Total		Softwoods		Hardwoods		Total		Softwoods		Hardwoods					
	Consump-	Index	Consump-	Index	Consump-	Index	Consump-	Index	Consump-	Index	Consump-	Index	Consump-	Index	Consump-	Index
	Billion	2009=100	Billion	2009=100	Billion	2009=100	Billion	2009=100	Billion	2009=100	Billion	2009=100	Billion	2009=100	Billion	2009=100
	board		board		board		square		board		square		board		board	
	feet		feet		feet		feet	(3/8-in. basis)		feet	(3/8-in. basis)		feet	(3/8-in. basis)	feet	(3/8-in. basis)
1965	43.0	114.2	33.4	107.4	9.6	146.6	15.5	125.9	12.4	141.9	3.1	86.5				
1966	42.8	113.6	32.8	105.3	10.0	152.8	16.3	132.5	13.0	148.7	3.3	93.0				
1967	41.5	110.1	32.0	102.9	9.5	144.4	16.0	130.0	12.9	147.1	3.2	88.2				
1968	43.0	114.1	34.0	109.4	9.0	136.5	18.5	150.3	14.6	167.3	3.9	108.6				
1969	42.2	112.1	33.2	106.6	9.1	137.8	17.5	141.8	13.5	154.4	4.0	110.8				
1970	40.7	108.1	32.2	103.5	8.5	130.0	18.0	146.2	14.2	162.6	3.8	105.9				
1971	45.0	119.4	36.3	116.8	8.6	131.6	21.0	170.3	16.5	189.0	4.5	124.6				
1972	47.5	126.0	38.8	124.6	8.7	132.5	23.3	188.8	18.1	206.9	5.2	144.4				
1973	48.0	127.3	38.9	124.9	9.1	138.9	22.2	180.1	17.9	204.6	4.3	120.2				
1974	41.7	110.6	33.0	105.9	8.7	132.4	18.3	148.6	15.3	175.3	3.0	83.3				
1975	38.4	101.9	31.1	99.9	7.3	111.8	18.2	147.4	15.3	174.4	2.9	81.2				
1976	44.1	117.0	36.0	115.9	8.0	122.2	21.1	171.2	17.7	202.7	3.4	94.0				
1977	49.3	130.8	40.7	130.7	8.6	131.0	22.5	182.4	19.1	218.3	3.4	94.3				
1978	51.5	136.6	42.6	136.8	8.9	136.0	23.4	189.7	19.7	225.4	3.6	102.0				
1979	50.1	133.0	40.8	131.2	9.3	141.9	22.5	182.3	19.3	220.3	3.2	89.3				
1980	42.8	113.5	33.8	108.7	9.0	136.4	18.2	147.6	16.0	182.8	2.2	61.5				
1981	39.3	104.2	32.0	102.8	7.3	111.0	18.5	150.2	16.1	183.9	2.4	67.5				
1982	39.1	103.8	31.3	100.6	7.8	119.1	18.6	151.0	15.4	176.0	3.2	89.9				
1983	48.5	128.6	40.0	128.5	8.5	129.6	23.1	187.4	18.9	216.2	4.2	116.6				
1984	52.7	140.0	42.9	137.7	9.9	150.6	23.6	191.1	19.6	224.0	3.9	110.5				
1985	54.1	143.6	44.5	143.1	9.6	146.0	24.3	196.8	19.9	227.4	4.4	121.9				
1986	57.9	153.8	47.6	153.1	10.3	157.2	26.1	211.5	21.6	246.5	4.5	125.9				
1987	61.5	163.3	50.5	162.2	11.0	168.2	27.5	223.1	22.2	254.1	5.3	147.4				
1988	59.3	157.3	48.4	155.5	10.9	165.7	26.4	214.2	21.7	247.9	4.7	131.8				
1989	60.7	161.1	49.1	157.9	11.6	176.3	23.3	189.4	20.0	228.4	3.4	93.9				
1990	56.7	150.3	44.9	144.4	11.7	178.7	22.4	181.6	19.3	221.1	3.0	84.9				
1991	52.2	138.5	41.7	134.0	10.5	159.8	20.1	162.7	17.4	198.3	2.7	75.4				
1992	55.9	148.4	45.1	145.1	10.8	163.7	20.8	168.5	17.9	205.0	2.8	79.3				
1993	57.3	152.1	45.7	147.0	11.6	176.1	20.9	169.9	17.9	205.1	3.0	83.6				
1994	60.0	159.2	48.3	155.1	11.8	178.9	21.7	175.9	18.5	211.1	3.2	89.6				
1995	59.5	157.9	47.6	152.9	11.9	181.8	21.6	175.6	18.2	207.5	3.5	97.5				
1996	61.3	162.6	49.5	159.1	11.8	179.2	21.2	172.4	18.0	205.9	3.2	90.3				
1997	62.9	166.8	51.0	163.8	11.9	181.1	20.1	163.4	16.5	188.8	3.6	101.4				
1998	64.5	171.0	52.2	167.9	12.2	186.0	21.2	172.0	17.2	196.4	4.0	112.1				
1999	66.8	177.4	54.4	174.9	12.4	189.1	21.7	175.9	17.3	198.2	4.3	121.2				
2000	66.1	175.4	54.0	173.6	12.1	184.1	21.7	176.3	17.1	196.0	4.6	128.1				
2001	64.9	172.4	53.7	172.6	11.3	171.4	19.8	160.4	15.3	174.5	4.5	125.8				
2002	67.1	178.1	55.8	179.5	11.3	171.5	20.8	168.7	15.7	179.0	5.1	143.4				
2003	67.0	177.7	56.8	182.7	10.1	154.2	20.6	167.2	15.6	178.3	5.0	139.9				
2004	73.5	195.1	62.8	201.7	10.8	164.0	22.5	182.8	16.2	185.1	6.3	177.3				
2005	74.5	197.7	63.6	204.3	10.9	166.5	22.6	183.4	16.3	186.7	6.3	175.3				
2006	70.9	188.2	60.6	194.7	10.3	157.5	21.0	170.1	14.9	169.7	6.1	171.0				
2007	62.5	165.8	52.6	168.9	9.9	151.1	18.3	148.1	12.8	146.0	5.5	153.2				
2008	46.9	124.4	40.7	130.7	6.2	94.4	14.6	118.2	10.4	118.6	4.2	117.5				
2009	37.7	100.0	31.1	100.0	6.6	100.0	12.3	100.0	8.8	100.0	3.6	100.0				
2010	37.8	100.3	32.9	105.8	4.9	74.3	12.7	102.8	8.8	100.3	3.9	109.1				
2011	40.1	106.4	34.4	110.5	5.7	86.8	12.7	103.3	8.7	99.6	4.0	112.3				
2012	42.1	111.6	36.5	117.4	5.5	84.1	13.1	106.2	8.8	100.2	4.3	120.8				
2013	45.8	121.5	39.6	127.1	6.2	94.9	13.9	112.5	9.1	104.3	4.7	132.5				
2014	49.6	131.6	42.5	136.6	7.1	108.2	13.7	111.2	8.9	102.1	4.8	133.7				
2015	51.7	137.1	44.4	142.7	7.3	110.6	14.3	116.4	9.1	104.3	5.2	146.0				
2016	54.3	144.1	47.3	151.9	7.1	107.3	14.8	119.8	9.6	109.5	5.2	145.3				
2017	54.7	145.1	47.9	153.9	6.8	103.2	15.3	124.1	10.3	118.2	4.9	138.4				

Table 12—Consumption of selected timber products and other materials used in construction, manufacturing, and shipping, 1965–2017<sup>a</sup>—con.

Year	Particleboard <sup>b</sup>		Insulating board		Hardboard		Portland cement <sup>c</sup>		Steel products <sup>d</sup>		Brick <sup>e</sup>	
	Consump-	Index	Consump-	Index	Shipments	Index	Shipments	Index	Shipments	Index	Shipments	Index
	Million	Million	Million	Million	Shipments	Thousand	Shipments	Thousand	Shipments	Million	Shipments	Index
	square feet (3/4-in. basis)	2009=100	square feet (1/2-in. basis)	2009=100	square feet (1/8-in. basis)	tons	square feet (1/8-in. basis)	tons	shipments	2009=100	shipments	2009=100
1965	832	17.8	3,395	137.4	2,921	131.2	70,328	89.2	11,836	122.6	8,089	225.6
1966	1,032	22.1	3,098	125.4	3,083	138.5	71,570	90.8	11,862	122.8	7,552	210.6
1967	1,166	25.0	3,233	130.9	3,038	136.5	70,315	89.2	11,375	117.8	7,117	198.5
1968	1,489	31.9	3,525	142.7	3,710	166.7	74,740	94.8	12,195	126.3	7,557	210.8
1969	1,794	38.4	3,656	148.0	4,247	190.8	77,047	97.8	11,402	118.1	7,290	203.3
1970	1,851	39.6	3,246	131.4	4,384	196.9	73,407	93.1	10,565	109.4	6,496	181.2
1971	2,488	53.3	3,889	157.4	5,225	234.7	79,005	100.2	8,666	89.7	7,570	211.1
1972	3,205	68.6	3,973	160.9	5,798	260.5	82,808	105.1	8,589	88.9	8,402	234.3
1973	3,574	76.5	3,975	160.9	6,050	271.8	88,459	112.2	10,731	111.1	8,674	241.9
1974	3,163	67.7	3,252	131.7	5,654	254.0	81,125	102.9	11,360	117.6	6,673	186.1
1975	2,650	56.7	2,919	118.2	5,681	255.2	69,078	87.6	8,119	84.1	6,262	174.6
1976	3,449	73.8	3,375	136.6	6,785	304.8	72,833	92.4	7,508	77.7	7,218	201.3
1977	4,105	87.9	3,485	141.1	7,714	346.6	78,730	99.9	7,553	78.2	8,663	241.6
1978	4,360	93.3	3,470	140.5	7,825	351.5	84,838	107.6	9,612	99.5	8,586	239.5
1979	4,020	86.1	3,399	137.6	7,688	345.4	84,860	107.7	9,978	103.3	7,708	215.0
1980	3,601	77.1	2,818	114.1	6,140	275.8	76,059	96.5	8,742	90.5	6,090	169.9
1981	3,522	75.4	2,118	85.7	6,105	274.3	71,901	91.2	8,446	87.5	5,059	141.1
1982	3,564	76.3	1,841	74.5	5,587	251.0	64,602	82.0	6,260	64.8	5,119	142.8
1983	4,560	97.6	2,398	97.1	7,303	328.1	70,849	89.9	6,276	65.0	6,218	173.4
1984	5,107	109.3	2,742	111.0	6,837	307.1	81,928	103.9	6,052	62.7	6,991	195.0
1985	5,292	113.3	2,724	110.3	6,300	283.0	84,779	107.6	6,407	66.3	6,605	184.2
1986	5,693	121.9	2,415	97.8	5,822	261.6	88,946	112.8	5,141	53.2	7,184	200.4
1987	6,042	129.3	2,388	96.7	5,458	245.2	90,458	114.8	5,619	58.2	7,601	212.0
1988	6,239	133.6	2,457	99.5	5,118	229.9	90,299	114.6	6,014	62.3	6,930	193.3
1989	4,920	105.3	2,621	106.1	5,196	233.4	89,081	113.0	7,041	72.9	7,494	209.0
1990	4,746	101.6	2,480	100.4	5,025	225.8	87,675	111.2	7,206	74.6	6,873	191.7
1991	4,654	99.6	2,332	94.4	4,895	219.9	78,058	99.0	7,112	73.6	5,975	166.6
1992	5,057	108.3	2,458	99.5	5,273	236.9	82,845	105.1	6,848	70.9	6,231	173.8
1993	5,656	121.1	2,435	98.6	5,248	235.8	86,388	109.6	6,755	69.9	6,655	185.6
1994	6,271	134.2	2,470	100.0	5,206	233.9	92,698	117.6	7,319	75.8	7,238	201.9
1995	5,828	124.8	2,470	100.0	4,930	221.5	93,392	118.5	6,988	72.4	6,665	185.9
1996	6,365	136.3	2,470	100.0	5,280	237.2	98,728	125.3	7,943	82.3	7,448	207.7
1997	6,691	143.2	2,470	100.0	4,501	202.2	99,812	126.6	7,546	78.1	7,576	211.3
1998	6,897	147.6	2,470	100.0	4,300	193.2	114,329	145.1	8,400	87.0	8,241	229.8
1999	7,315	156.6	2,470	100.0	4,386	197.0	120,024	152.3	8,800	91.1	8,932	249.1
2000	7,986	171.0	2,470	100.0	3,781	169.9	121,332	153.9	8,767	90.8	8,617	240.3
2001	7,224	154.6	2,470	100.0	3,322	149.2	124,736	158.3	9,188	95.1	7,955	221.9
2002 <sup>f</sup>	7,200	154.1	2,470	100.0	2,919	131.1	121,279	153.9	8,869	91.8	8,110	226.2
2003	6,972	149.3	2,470	100.0	4,304	193.3	124,506	158.0	9,953	103.1	8,520	237.6
2004	7,608	162.9	2,470	100.0	3,880	174.3	133,110	168.9	10,011	103.7	9,389	261.9
2005 <sup>f</sup>	7,322	156.7	2,470	100.0	4,347	195.3	140,420	178.2	9,208	95.4	9,419	262.7
2006	6,989	149.6	2,470	100.0	3,870	173.9	141,012	178.9	9,524	98.6	8,900	248.2
2007	6,345	135.8	2,470	100.0	3,312	148.8	127,261	161.5	10,150	105.1	7,237	201.8
2008	5,404	115.7	2,470	100.0	2,916	131.0	107,301	136.1	9,657	100.0	5,054	141.0
2009	4,671	100.0	2,470	100.0	2,226	100.0	78,819	100.0	9,657	100.0	3,586	100.0
2010	4,634	99.2	2,470	100.0	2,718	122.1	78,390	99.5	8,350	86.5	3,496	97.5
2011	4,676	100.1	2,470	100.0	2,466	110.8	80,827	102.5	7,379	76.4	z	z
2012	4,808	102.9	2,470	100.0	2,201	98.9	79,951	101.4	z	z	z	z
2013	5,367	114.9	2,470	100.0	2,500	112.3	83,187	105.5	z	z	z	z
2014	7,189	153.9	2,470	100.0	2,532	113.7	90,070	114.3	z	z	z	z
2015	7,341	157.1	2,470	100.0	2,513	112.9	93,276	118.3	z	z	z	z
2016	6,593	141.1	2,471	100.0	2,688	120.7	95,179	120.8	z	z	z	z
2017	6,549	140.2	2,470	100.0	2,698	121.2	96,900	122.9	z	z	z	z

<sup>a</sup>American Plywood Association (11,12,13); Composite Panel Association (15); U.S. Department of Commerce, Bureau of Industrial Economics (76); Wood Technology (92); U.S. International Trade Commission (86,87). Hardwood Market Report (19a): 2008–present.

<sup>b</sup>Includes medium-density fiberboard.

<sup>c</sup>U.S. Geological Survey (85).

<sup>d</sup>American Iron & Steel Institute (8). Construction, including maintenance; net shipments.

<sup>e</sup>U.S. Department of Commerce, Bureau of the Census (57,58).

<sup>f</sup>Revised

<sup>z</sup>Data no longer available.

Table 13—Volume and value of imports and exports of timber products by product, 2017

Product	Standard unit of measure	Imports <sup>a</sup>		Exports		Trade balance <sup>d</sup>	
		Volume	Value <sup>b</sup> Million dollars	Volume	Value <sup>c</sup> Million dollars	Volume	Value <sup>c</sup> Million dollars
Logs: <sup>g,f,k</sup>	Million board feet						
Softwoods		69.3	37.4	1,523.6	1,378.4	1,454.3	1,341.0
Hardwoods		83.4	24.5	365.8	854.1	282.3	829.6
Total				1,889.4	2,232.5	1,889.4	2,232.5
Lumber: <sup>g,e,m</sup>	Million board feet						
Softwoods		15,381.9	6,556.0	1,423.5	922.3	(13,958.4)	(5,633.7)
Hardwoods		354.4	485.1	1,884.6	2,640.0	1,530.2	2,154.9
Railroad ties <sup>f</sup>		7.5	2.5	165.2	149.3	157.7	146.8
Total		15,743.9	7,043.6	3,473.4	3,711.6	(12,270.5)	(3,332.0)
Veneer:	Million square feet						
Softwoods <sup>e,f</sup>	3/8" thickness	2,194.1	187.8	241.74	30.8	(1,952.4)	(157.0)
Hardwoods <sup>e,f,g</sup>		895.3	188.9	1,959.8	261.7	1,064.5	72.9
Total		3,089.5	376.7	2,201.5	292.6	(887.9)	(84.1)
Plywood: <sup>e,f</sup>	Million square feet						
Softwoods	3/8" thickness	1,806.0	579.0	194.0	171.7	(1,612.0)	(407.3)
Hardwoods	3/8" thickness	3,338.4	1,772.9	202.8	91.5	(3,135.6)	(1,681.4)
Total		5,144.4	2,351.9	396.8	263.2	(4,747.6)	(2,088.7)
Particleboard <sup>e</sup>	Million square feet						
	3/4" thickness	686.8	301.6	139.1	79.7	(547.7)	(221.9)
Medium-density fiberboard <sup>e</sup>	Million square feet						
	3/4" thickness	2,309.8	994.3	258.7	124.1	(2,051.1)	(870.2)
OSB/Waferboard <sup>e</sup>	Million square feet						
	3/8" thickness	2,720.5	1,429.8	78.0	53.2	(2,642.5)	(1,376.6)
Hardboard <sup>e</sup>	Million square feet						
	1/8" thickness assumed	927.9	133.2	3,606.1	316.2	2,678.1	182.9
Pulpwood:	Thousand cords						
Round <sup>g,f</sup>		z	z	z	z	z	z
Chips <sup>g</sup>		z	z	z	z	z	z
Total		39.0	4.3	59.3	11.9	20.3	7.6
Wood pulp <sup>g</sup>	Thousand short tons	6,206.0	3,007.0	8,367.0	5,300.0	2,161.0	2,293.0
Paper and board: <sup>g,h</sup>	Thousand short tons						
Newsprint		1,902.0	908.0	317.0	145.0	(1,585.0)	(763.0)
Printing and writing paper		4,455.0	3,154.0	1,837.0	1,635.0	(2,618.0)	(1,519.0)
Paperboard		2,586.0	1,988.0	8,924.0	6,051.0	6,338.0	4,063.0
Other paper and board <sup>i</sup>		1,511.0	2,327.0	1,195.0	1,772.0	(316.0)	(555.0)
Converted products		2,696.0	7,298.0	2,847.0	6,144.0	151.0	(1,154.0)
Total		10,454.0	8,377.0	12,273.0	9,603.0	1,819.0	1,226.0
Recovered paper <sup>g</sup>	Thousand short tons	1,007.0	155.0	20,001.0	3,162.0	18,994.0	3,007.0
Other wood products <sup>j</sup>			2,288.0		1,122.5		(1,165.6)
Total all products <sup>k,f,l</sup>			26,462.5		26,272.4		(190.1)

<sup>a</sup>Imports for consumption.<sup>b</sup>Customs value, which is generally defined as the price actually paid or payable for merchandise when sold for exportation to the U.S., excluding U.S. import duties, freight, insurance, and other charges.<sup>c</sup>Value (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.<sup>d</sup>Negative amounts, given in parentheses, indicate imports exceed exports.<sup>e</sup>U.S. Department of Agriculture, Foreign Agricultural Service (44).<sup>f</sup>U.S. International Trade Commission (86,87).<sup>g</sup>American Forest and Paper Association (3,4,5).<sup>h</sup>Includes wet machine board and converted paper and paperboard products.<sup>i</sup>Includes tissue, packaging and industrial papers, wet machine board and construction paper and board.<sup>j</sup>Includes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products.

Does not include wood furniture or printed material.

<sup>k</sup>Includes Pulpwood Logs.<sup>l</sup>Data may not add to totals because of rounding.<sup>m</sup>Western Wood Products Association (88,89).<sup>z</sup>Not available.

Table 14—Value of imports and exports of all commodities<sup>a</sup> and timber products,<sup>b</sup> 1965–2017

Year	Imports <sup>c</sup>					Exports <sup>d</sup>				
	All commodities		Timber products		Proportion <sup>e</sup>	All commodities		Timber products		Proportion <sup>e</sup>
	Million current dollars	Million 2009 dollars <sup>f</sup>	Million current dollars	Million 2009 dollars		Million current dollars	Million 2009 dollars	Million current dollars	Million 2009 dollars	
1965	21,285	117,144	1,977	10,881	9.3	27,135	149,340	917	5,047	3.4
1966	25,360	135,688	2,165	11,584	8.5	29,884	159,893	1,024	5,479	3.4
1967	26,733	138,801	2,087	10,836	7.8	31,142	161,693	1,150	5,971	3.7
1968	32,970	164,030	2,446	12,169	7.4	33,953	168,920	1,362	6,776	4.0
1969	35,863	170,209	2,734	12,976	7.6	37,462	177,798	1,509	7,162	4.0
1970	39,756	179,162	2,546	11,474	6.4	42,590	191,933	1,816	8,184	4.3
1971	45,516	194,929	2,937	12,578	6.5	43,492	186,261	1,692	7,246	3.9
1972	55,290	226,784	3,632	14,897	6.6	48,887	200,521	2,038.0	8,359	4.2
1973	69,024	267,846	4,468	17,338	6.5	70,246	272,588	3,006.0	11,665	4.3
1974	100,140	357,643	4,778	17,064	4.8	97,144	346,943	4,165.0	14,875	4.3
1975	96,477	315,491	4,141	13,542	4.3	106,102	346,965	4,088.0	13,368	3.9
1976	121,121	373,715	5,590	17,248	4.6	113,319	349,642	4,695.0	14,486	4.1
1977	147,976	428,419	6,720	19,456	4.5	117,926	341,419	4,664.0	13,503	4.0
1978	172,912	468,216	8,028	21,738	4.6	141,126	382,145	4,963.0	13,439	3.5
1979	205,850	515,656	9,181	22,998	4.5	178,591	447,372	6,854.0	17,169	3.8
1980	239,943	551,974	8,648	19,894	3.6	216,592	498,256	8,516.0	19,591	3.9
1981	259,012	545,288	9,042	19,036	3.5	228,961	482,023	7,925.0	16,684	3.5
1982	242,340	481,024	8,382	16,638	3.5	207,158	411,191	7,151.0	14,194	3.5
1983	256,680	489,380	10,067	19,194	3.9	195,969	373,630	7,044.0	13,430	3.6
1984	322,949	593,765	12,235	22,495	3.8	212,056	389,880	7,210.0	13,256	3.4
1985	343,067	611,637	12,539	22,355	3.7	206,926	368,918	6,699.0	11,943	3.2
1986	368,251	642,560	13,271	23,157	3.6	206,628	360,544	7,692.0	13,422	3.7
1987	402,084	681,845	15,268	25,891	3.8	244,417	414,477	9,940.0	16,856	4.1
1988	437,475	717,760	16,749	27,480	3.8	310,333	509,160	12,782.0	20,971	4.1
1989	477,400	754,186	19,106	30,183	4.0	362,100	572,038	17,224.0	27,210	4.8
1990	498,300	757,525	18,806	28,589	3.8	389,300	591,821	18,542.0	28,188	4.8
1991	491,000	722,909	17,100	25,177	3.5	416,900	613,810	19,500.0	28,710	4.7
1992	536,500	771,166	18,700	26,879	3.5	440,400	633,031	20,700.0	29,754	4.7
1993	589,400	827,344	18,874	26,494	3.2	456,800	641,213	16,889.0	23,707	3.7
1994	668,600	919,291	17,117	23,535	2.6	502,400	690,774	15,320.3	21,065	3.0
1995	749,600	1,008,747	19,023	25,600	2.5	575,800	774,862	17,582.0	23,660	3.1
1996	803,300	1,061,162	21,264	28,090	2.6	612,000	808,454	18,315.0	24,194	3.0
1997	877,300	1,135,958	27,375	35,446	3.1	679,300	879,580	21,386.0	27,691	3.1
1998	918,800	1,175,237	28,684	36,689	3.1	670,600	857,764	19,261.1	24,637	2.9
1999	1,030,400	1,299,369	32,263	40,685	3.1	683,200	861,538	19,483.0	24,569	2.9
2000	1,224,400	1,512,165	34,300	42,362	2.8	772,000	953,440	21,760.2	26,874	2.8
2001	1,145,900	1,382,435	32,250	38,907	2.8	718,800	867,173	18,930.6	22,838	2.6
2002	1,166,900	1,392,150	32,348	38,592	2.8	682,600	814,364	18,738.6	22,356	2.7
2003	1,260,700	1,504,056	33,644	40,138	2.7	713,400	851,110	19,230.3	22,942	2.7
2004	1,488,300	1,669,808	42,042	47,169	2.8	807,500	905,980	21,136.0	23,714	2.6
2005	1,695,800	1,843,461	43,914	47,738	2.6	892,600	970,323	22,727.7	24,707	2.5
2006	1,878,200	1,980,806	42,860	45,202	2.3	1,039,400	1,096,182	24,700.3	26,050	2.4
2007	1,986,300	2,040,789	31,117.2	31,971	1.6	1,163,600	1,195,520	44,597.1	45,821	3.8
2008	2,141,300	2,157,699	27,960.8	28,175	1.3	1,307,300	1,317,312	26,082.3	26,282	2.0
2009	1,580,000	1,580,000	19,148.9	19,149	1.2	1,069,500	1,069,500	22,547.3	22,547	2.1
2010	1,939,000	1,918,472	21,456.0	21,229	1.1	1,288,800	1,275,156	27,205.0	26,917	2.1
2011	2,240,000	2,170,543	22,119.6	21,434	1.0	1,495,900	1,449,516	29,815.3	28,891	2.0
2012	2,302,700	2,193,048	22,119.6	21,066	1.0	1,561,200	1,486,857	29,815.3	28,396	1.9
2013	2,294,200	2,149,536	23,546.8	22,062	1.0	1,589,700	1,489,459	29,369.1	27,517	1.8
2014	2,385,500	2,203,288	27,276.6	25,193	1.1	1,634,000	1,509,190	31,131.0	28,753	1.9
2015	2,272,600	2,065,775	33,409.8	30,369	1.5	1,510,800	1,373,305	32,422.5	29,472	2.1
2016	2,208,200	1,981,942	25,400.4	22,798	1.2	1,455,700	1,306,545	24,389.4	21,890	1.7
2017	2,361,500	2,081,956	26,462.5	23,330	1.1	1,551,400	1,367,752	26,272.4	23,162	1.7

<sup>a</sup>U.S. Council of Economic Advisors (42).<sup>b</sup>U.S. International Trade Commission; American Forest & Paper Association.<sup>c</sup>Imports for consumption. Customs value, which is generally defined as the price actually paid or payable for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance, and other charges.<sup>d</sup>Value (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.<sup>e</sup>Timber products as a percentage of all commodities.<sup>f</sup>Converted to 1997 dollars by dividing current dollars by the implicit deflators for gross domestic product for imports and exports.

Table 15—Foreign exchange rates by selected country and year, 1975–2017<sup>a</sup>

Country	Currency	Foreign currency units per U.S. dollar									
		2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
<b>North America</b>											
Canada	Dollar	1.2984	1.3243	1.2791	1.1043	1.0300	0.9995	0.9887	1.0298	1.1412	1.066
<b>Asia</b>											
China, PR	Yuan	6.7569	6.6400	6.2827	6.162	6.1478	6.3093	6.463	6.7696	6.8307	6.9477
Hong Kong	Dollar	7.7926	7.7620	7.7524	7.7545	7.7565	7.7569	7.7841	7.7687	7.7514	7.7862
India	Rupee	65.0700	67.1600	64.1100	61.01	58.51	53.37	46.58	45.65	48.33	43.39
Japan	Yen	112.1000	108.6600	121.0500	105.74	97.60	79.82	79.70	87.78	93.68	103.39
Malaysia	Ringgit	4.2982	4.1372	3.9041	3.2697	3.1488	3.0862	3.0564	3.2175	3.5231	3.3292
Singapore	Dollar	1.3802	1.3800	1.3746	1.2665	1.2511	1.2492	1.2565	1.3629	1.4543	1.414
South Korea	Won	1129.0400	1159.3400	1130.9600	1052.29	1094.67	1126.16	1106.94	1155.74	1274.63	1098.71
Sri Lanka	Rupee	152.4350	145.7350	135.8690	130.536	129.046	127.539	110.469	112.99	114.909	108.298
Taiwan	Dollar	30.4020	32.2260	31.7440	30.299	29.680	29.558	29.382	31.498	33.02	31.521
Thailand	Baht	33.9130	35.2640	34.2410	32.461	30.696	31.055	30.462	31.7	34.31	32.962
<b>Africa</b>											
South Africa	Rand	13.2943	14.6821	12.7645	10.842	9.6436	8.2014	7.251	7.3161	8.4117	8.248
<b>Europe</b>											
Austria	Schilling	15.5509	15.2357	15.2688	18.29746982	18.27545286	17.69475554	19.16989186	18.24753383	19.1750	20.263
Belgium	Franc	45.5881	44.6643	44.7612	53.63996503	53.57542119	51.87307741	56.19751469	53.5731139	56.2137	59.405
Denmark	Krone	6.5957	6.7276	6.7263	5.6151	5.617	5.7922	5.3535	5.6266	5.3574	5.0885
European Union	Euro	1.1301	1.1072	1.1096	1.3297	1.3281	1.2859	1.3931	1.3261	1.3935	1.4726
Finland	Markka	6.7193	6.5831	6.5974	7.906037181	7.896524013	7.645614207	7.8282996463	7.884632553	8.2854	8.7557
France	Franc	7.4130	7.2628	7.2785	8.722260229	8.711764917	8.434951063	9.138136967	8.698645777	9.1408	9.6596
Germany	Deutsche mark	2.2103	2.1655	2.1702	2.600667151	2.597537823	2.515001797	2.724666773	2.593626163	2.7254	2.8802
Greece	Drachma	z	z	z	z	z	z	z	z	z	z
Ireland	Pound <sup>b</sup>	0.8900	0.8720	0.8739	1.047223851	1.045963748	1.012728548	1.097155408	1.04438862	1.0975	1.1598
Italy	Lira	2218.6914	2173.7325	2178.4444	2610.560119	2607.418887	2524.568893	2735.031437	2603.492347	2,698.19	2,851.35
Netherlands	Guilder	2.4904	2.4399	2.4452	2.930273187	2.926747251	2.833750689	3.069988401	2.922339831	3.0709	3.2452
Norway	Krone	8.2679	8.3936	8.0681	6.2969	5.8772	5.8181	5.6022	6.0451	6.2908	5.6365
Portugal	Escudo	226.5647	221.9737	222.4548	266.5809154	266.2601442	257.7998038	279.2914742	265.8591802	279.37	295.23
Spain	Peseta	188.0328	184.2226	184.6219	221.2434642	220.9772466	213.9557574	231.7923366	220.6444746	231.86	245.02
Sweden	Krona	8.5430	8.5541	8.4350	6.8576	6.5124	6.7721	6.4878	7.2053	7.6539	6.5846
Switzerland	Franc	0.9842	0.9848	0.9628	0.9147	0.9269	0.9377	0.8862	1.0432	1.0860	1.0816
United Kingdom	Pound <sup>b</sup>	1.2890	1.3555	1.5284	1.6484	1.5642	1.5853	1.6043	1.5452	1.5661	185.45
<b>Other</b>											
Australia	Dollar <sup>b</sup>	0.7671	0.7445	0.7522	0.9034	0.9392	1.0359	1.0332	0.92	0.7927	85.37
New Zealand	Dollar <sup>b</sup>	0.7111	0.6976	0.7001	0.8313	0.8803	0.8105	0.792	0.7216	0.6358	71.51
<b>Index</b>											
United States	Dollar <sup>c,d</sup>	91.0800	91.5800	90.9700	78.37	75.93	73.50	70.88	75.39	77.69	74.42
											77.84

<sup>a</sup>U.S. Federal Reserve System, Board of Governors (83,84).<sup>b</sup>Value in U.S. cents.<sup>c</sup>Index of weighted-average exchange value of U.S. dollar against the currencies of ten industrial countries.

The weight for each of the ten countries is the 1972–1976 average world trade of that country divided by the average world trade of all ten countries combined. Series revised as of August 1978.

<sup>d</sup>Data prior to 1999 were reported using the G-10 index. Data for 1999 and later are reported using the major currency scale.<sup>e</sup>Not Available

U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1990	1985	1980	1975
1.134	1.2115	1.3017	1.4008	1.5704	1.5487	1.4855	1.4858	1.4836	1.3849	1.3638	1.3725	1.3664	1.2902	1.1668	1.3658	1.1693	1.0173
7.9723	8.1936	8.2768	8.277	8.277	8.277	8.2784	8.2781	8.3008	8.3193	8.3389	8.37	8.6404	5.7795	4.7921	2.9434	z	z
7.7681	7.7775	7.7891	7.7875	7.7997	7.7997	7.7924	7.7594	7.7467	7.7431	7.7345	7.7357	7.729	7.7357	7.7899	7.7911	z	z
45.19	44	45.26	46.59	48.63	47.22	45.00	43.13	41.36	36.365	35.506	32.418	31.394	31.291	17.492	12.332	7.8866	8.3854
116.31	110.11	108.15	115.94	125.22	121.57	107.8	113.73	130.99	121.06	108.78	93.96	102.18	111.08	145	238.47	226.63	296.69
3.6661	3.7869	3.8	3.8000	3.8000	3.8000	3.8000	3.8000	3.9254	2.8173	2.5154	2.5073	2.6237	2.5738	2.7057	2.4806	2.1767	2.395
1.5882	1.6639	1.6902	1.743	1.791	1.793	1.7250	1.6951	1.6722	1.4857	1.41	1.4171	1.5275	1.6158	1.8134	2.2008	z	z
954.32	1023.75	1145.24	1192.08	1250.31	1292.01	1,130.90	1,189.84	950.77	950.77	805	772.69	806.93	805.75	710.64	861.89	z	z
103.94	100.383	101.268	96.541	95.773	89.602	76.964	70.868	59.026	59.026	55.289	51.047	49.17	48.211	40.078	27.187	16.167	6.95
32.506	32.131	33.372	34.405	34.536	33.824	31.260	32.322	33.547	28.775	27.468	26.495	26.465	26.918	39.889	z	z	z
37.876	40.252	40.271	41.556	43.019	44.532	40.210	37.887	41.262	31.072	25.359	24.921	25.161	25.333	25.609	27.193	z	z
6.7668	6.3606	6.4402	7.5550	10.5176	8.6093	6.9468	6.1191	5.5417	4.6072	4.3011	3.6284	3.5526	3.2729	2.5885	2.2343	0.778	0.7328
17.287	17.130	17.115	15.578	13.009	12.318	12.704	14.659	12.379	12.206	10.589	10.076	11.409	11.639	11.331	20.676	12.945	17.401
50.679	50.219	50.175	45.669	38.137	36.112	37.242	42.974	36.31	35.807	30.968	29.472	33.426	34.581	33.424	59.336	29.237	36.694
5.9422	5.9953	5.9891	6.5774	7.8862	8.3323	8.0953	6.9900	6.703	6.6092	5.8003	5.5999	6.3561	6.4863	6.1899	10.598	5.6345	5.7351
1.2563	1.2449	1.2438	1.1321	0.9454	0.8952	0.9232	1.0653	z	z	z	z	z	z	z	z	z	z
7.4696	7.4018	7.3953	6.7312	5.6211	5.3226	5.4891	6.3340	5.3473	5.1956	4.5948	4.3763	5.234	5.7251	3.83	6.1971	3.7206	3.6651
8.2408	8.1660	8.1588	7.4261	6.2014	5.8721	6.0558	6.9879	5.8995	5.8393	5.1158	4.9864	5.5459	5.6669	5.4467	8.9799	4.225	4.2819
2.4571	2.4348	2.4327	2.2142	1.8490	1.7509	1.8056	2.0835	1.7597	1.7348	1.5049	1.4321	1.6216	1.6545	1.6166	2.9419	1.8175	2.4553
z	z	z	z	z	z	z	z	365.92	306.30	295.7	273.28	240.82	231.68	242.5	229.64	158.59	138.4
0.9894	0.9804	0.9796	0.8916	0.7446	0.7050	0.7271	0.8390	142.48	151.63	159.95	160.35	149.69	146.47	165.76	106.62	205.77	222.16
2,432.54	2,410.46	2,408.33	2,192.05	1,830.55	1,733.35	1,787.56	2,062.71	1,736.85	1,703.81	1,542.76	1,629.45	1,611.49	1,573.41	1,198.27	1,908.90	856.2	652.4
2.7685	2.7434	2.7410	2.4948	2.0834	1.9728	2.0345	2.3476	1.9837	1.9525	1.6863	1.6044	1.819	1.8585	1.8215	3.3184	1.9875	2.5232
6.4095	6.4412	6.7399	7.0803	7.9839	8.9964	8.8131	7.8017	7.5521	7.0857	6.4594	6.3355	7.0553	7.1009	6.2541	8.5933	4.9381	5.2137
251.87	249.58	249.36	226.97	189.54	179.47	185.08	213.57	180.25	175.44	154.28	149.88	165.93	161.08	142.7	172.07	50.082	25.454
209.03	207.13	206.95	188.37	157.30	148.95	153.61	177.25	149.41	146.53	124.64	126.68	133.88	127.48	101.96	169.98	71.758	57.393
7.3718	7.471	7.348	8.0787	9.7233	10.3425	9.1735	8.2740	7.9522	7.6446	6.7082	7.1406	7.7161	7.7956	5.9231	8.6031	4.2309	4.1424
1.2532	1.2459	1.2428	1.3450	1.5567	1.6891	1.6904	1.5045	1.4514	1.2361	1.1812	1.3667	1.4781	1.3901	2.4551	1.6772	2.5811	z
184.34	182.04	183.3	163.47	150.25	143.96	151.56	161.72	165.73	163.76	156.07	157.85	153.19	150.16	178.41	129.74	232.58	222.16
75.35	76.27	73.65	65.24	54.37	51.69	58.15	64.54	62.91	74.368	78.283	74.073	73.161	67.993	78.069	70.026	114	130.77
64.92	70.49	66.43	58.22	46.45	42.02	45.68	52.94	53.61	66.247	68.765	65.625	59.358	54.127	59.619	49.752	97.34	121.16
82.46	83.78	85.37	93	103.09	104.32	98.32	94.07	98.85	96.38	87.34	84.25	91.32	93.18	89.09	143.01	87.39	98.5

Table 16—Log imports by major species, 1965–2017 (million board feet, log scale)<sup>a,c</sup>

Year	Total	Softwoods <sup>b</sup>	Hardwoods				
			Total	Mahogany	Philippine mahogany or lauan	Birch and maple	
1965	68.1	13.5	54.6	12.8	11.0	6.2	24.6
1966	95.6	42.5	53.1	16.1	2.8	6.3	27.9
1967	77.0	33.9	43.1	10.5	4.6	6.6	21.4
1968	79.0	33.1	45.9	8.5	1.9	6.5	29.0
1969	81.9	41.7	40.2	6.5	3.1	7.6	23.0
1970	144.4	106.5	37.9	6.8	0.7	8.2	22.2
1971	84.0	55.7	28.3	3.3	0.2	8.7	16.1
1972	39.3	11.3	28.0	3.6	0.7	7.9	15.8
1973	33.5	8.5	25.0	2.1	3.2	9.2	10.5
1974	76.6	45.6	31.0	3.4	0.9	12.3	14.4
1975	85.5	68.5	17.0	1.6	0.3	7.2	7.9
1976	81.6	67.4	14.2	1.2	0.6	8.7	3.7
1977	154.5	139.5	15.0	2.4	0.5	8.9	3.2
1978	96.9	79.1	17.8	1.5	f	9.1	7.2
1979	133.0	118.4	14.6	1.1	0.3	8.4	4.8
1980	127.5	114.1	13.4	1.0	f	7.4	5.0
1981	101.1	87.6	13.5	0.6	f	8.7	4.2
1982	117.1	98.8	18.3	0.8	f	10.2	7.3
1983	165.0	142.5	22.5	0.3	0.3	5.1	16.8
1984	146.9	116.8	30.1	0.5	0.3	4.4	24.9
1985	99.2	70.8	28.4	0.3	0.3	2.9	24.9
1986	78.6	52.1	26.4	1.3	1.6	3.0	20.5
1987	82.5	68.7	13.8	0.3	0.3	3.8	9.4
1988	68.1	55.9	12.2	1.7	f	3.8	6.7
1989	39.3	20.9	18.4	0.8	0.1	6.7	10.8
1990	23.1	12.9	10.2	1.1	f	3.7	5.4
1991	13.6	7.6	6.0	0.9	f	2.6	2.5
1992	43.4	36.8	6.6	0.7	0.1	4.4	1.4
1993	93.9	85.7	8.2	1.1	f	3.9	3.2
1994	110.4	94.3	16.0	1.3	f	6.3	8.4
1995	80.4	54.5	25.9	1.6	0.3	6.6	17.4
1996	115.0	83.6	31.4	1.7	0.3	11.8	17.7
1997	127.6	84.1	43.5	2.3	0.3	8.1	32.8
1998	185.3	146.9	38.4	2.3	0.3	8.7	27.0
1999	294.3	254.3	40.0	2.3	0.3	10.1	27.3
2000	449.6	390.4	59.2	2.3	0.3	9.4	47.2
2001	458.9	399.0	59.9	2.3	0.3	7.6	49.6
2002	536.7	466.0	70.7	2.3	0.3	12.6	55.5
2003	497.4	430.8	66.6	2.3	0.3	5.3	58.7
2004	453.5	388.7	64.8	2.3	0.3	7.3	54.9
2005	704.0	609.4	94.5	2.3	0.3	11.5	80.4
2006	585.4	529.7	55.7	2.3	0.3	9.1	44.1
2007	417.7	387.7	30.0	2.3	0.3	5.0	22.4
2008	219.8	186.9	32.9	2.3	0.3	5.1	25.3
2009	104.7	89.9	14.8	2.3	0.3	5.5	6.6
2010	126.1	98.5	27.6	2.3	0.3	8.4	16.5
2011	115.9	90.7	25.1	2.3	0.3	6.7	15.8
2012	176.3	135.9	40.5	2.3	0.3	13.1	24.8
2013	164.1	120.1	44.0	2.3	0.3	26.6	14.8
2014	138.7	98.6	40.1	2.3	0.3	20.1	17.4
2015	138.9	97.2	41.7	2.3	0.3	22.2	16.9
2016	116.0	79.1	36.9	2.3	0.3	20.2	14.1
2017	152.7	69.3	83.4	2.3	0.3	33.6	47.3

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (67,72); U.S. Department of Agriculture, Foreign Agricultural Service (44); U.S. International Trade Commission (86,87).

Data may not add to totals because of rounding.

<sup>b</sup>Western Wood Products Association 1965–1999 (88,89).

<sup>c</sup>Prior to 2000, pulpwood logs are not included in logs.

fFewer than 50,000 board feet.

**Table 17—Log imports by major region of origin, 1965–2017**  
 (million board feet, log scale)<sup>a,e</sup>

Year	Total	Mexico and					
		Canada <sup>b</sup>	Central America <sup>c</sup>	South America	Africa	Asia	Other <sup>d</sup>
1965	68.1	20.3	3.4	18.0	14.1	11.7	0.6
1966	95.6	49.4	3.7	21.3	17.4	3.6	0.2
1967	77.0	40.6	3.0	18.3	9.7	4.9	0.5
1968	79.0	39.9	3.1	26.8	6.8	2.1	0.3
1969	81.9	49.5	2.1	18.3	8.3	3.5	0.2
1970	144.4	114.9	2.3	17.6	8.3	1.0	0.3
1971	84.0	64.6	2.2	13.1	3.2	0.9	f
1972	39.3	17.3	2.6	13.9	3.8	1.4	0.3
1973	33.5	17.8	3.0	2.9	4.8	4.8	0.2
1974	76.6	57.0	z	1.3	4.0	9.1	5.2
1975	85.5	80.3	0.3	z	1.4	0.1	3.4
1976	81.6	78.0	z	z	1.3	0.7	1.6
1977	154.5	150.5	z	z	2.5	0.6	0.9
1978	96.9	85.9	0.4	5.5	4.1	0.5	0.5
1979	133.0	111.2	0.2	17.4	1.5	1.1	1.6
1980	127.5	121.4	0.2	f	1.3	0.2	4.4
1981	101.1	94.4	0.4	f	0.7	0.6	5.0
1982	117.1	115.4	0.2	0.1	0.9	0.4	0.1
1983	165.0	161.5	1.0	0.1	0.3	1.7	0.4
1984	146.9	143.1	0.2	0.1	0.7	1.8	1.0
1985	99.2	81.1	0.1	0.5	3.2	13.9	0.4
1986	78.6	61.1	0.1	0.2	1.2	5.4	10.6
1987	82.5	75.6	0.2	0.2	0.3	2.1	4.1
1988	68.1	62.6	0.4	0.2	1.4	2.6	0.9
1989	39.3	20.0	2.3	0.7	2.1	8.1	6.1
1990	23.1	19.3	0.6	0.5	0.5	1.6	0.6
1991	13.6	9.0	0.4	0.2	0.3	1.1	2.6
1992	43.4	40.7	0.8	0.2	0.6	0.6	0.5
1993	93.9	89.3	f	0.2	0.4	0.6	3.4
1994	110.4	85.0	1.2	0.6	0.6	0.7	22.3
1995	80.4	56.3	1.5	0.6	0.6	0.1	21.3
1996	115.0	94.6	2.1	0.8	0.1	0.1	17.3
1997	127.6	105.7	1.7	1.2	0.1	0.1	18.8
1998	185.3	168.4	0.5	1.2	0.1	0.2	14.9
1999 <sup>r</sup>	294.3	280.3	0.6	1.8	0.3	1.3	9.9
2000	449.6	426.2	0.5	4.6	2.6	0.3	15.4
2001	458.9	445.0	0.7	3.9	0.2	0.8	8.2
2002	536.7	521.4	4.2	3.1	0.2	0.2	7.5
2003	497.4	486.7	0.9	3.8	0.1	0.8	5.2
2004	453.5	446.8	0.5	2.0	0.3	0.5	3.4
2005	704.0	605.0	0.9	3.5	0.2	1.5	92.8
2006	585.4	495.0	0.9	8.6	0.7	0.9	79.3
2007	417.7	380.0	0.7	0.6	1.0	1.3	34.1
2008	219.8	186.0	4.9	0.4	0.2	1.6	26.7
2009	104.7	101.1	0.5	0.2	0.5	0.9	1.5
2010	126.1	119.6	0.4	1.4	0.1	1.4	3.0
2011	115.9	110.0	0.2	0.1	0.1	0.8	4.7
2012	176.3	133.0	0.1	0.1	0.2	1.0	41.9
2013	164.1	161.1	0.4	0.1	0.2	0.9	1.5
2014	138.7	136.7	0.3	0.1	0.1	1.0	0.4
2015	138.9	135.9	0.3	0.3	0.3	0.9	1.3
2016	116.0	114.0	0.2	0.1	0.2	0.6	0.8
2017	152.7	147.1	0.1	2.1	0.4	0.3	2.6

<sup>a</sup>U.S. Department of Agriculture, Foreign Agricultural Service (44); Western Wood Products Association (88,89); U.S. International Trade Commission (86,87).

Data may not add to totals because of rounding.

<sup>b</sup>American Forest and Paper Association 1965–1999 (2).

<sup>c</sup>Includes the West Indies.

<sup>d</sup>For the years 1974–1977, all imports with a value of less than \$500 are included in Other.

<sup>e</sup>Prior to 2000, pulpwood logs are not included in logs.

<sup>f</sup>Fewer than 50,000 board feet.

<sup>g</sup>Not Available.

<sup>r</sup>Revised

Table 18—Log exports by major species, 1965–2017 (million board feet, Scribner log scale)<sup>a</sup>

Year	Softwoods						Hardwoods		
	Total	Total <sup>b</sup>	Douglas-fir <sup>c</sup>	Port-Orford-cedar <sup>c</sup>	Western hemlock <sup>c</sup>	Other	Total <sup>b</sup>	Walnut <sup>c</sup>	Other
1965	1,195.0	1,113.6	111.3	39.1	<sup>d</sup>	963.2	81.4	23.6	57.8
1966	1,391.2	1,315.7	130.5	41.2	<sup>d</sup>	1,144.0	75.5	12.5	63.0
1967	1,972.1	1,875.1	269.5	34.6	<sup>d</sup>	1,571.0	97.0	16.1	80.9
1968	2,568.1	2,473.2	396.5	38.4	<sup>d</sup>	2,038.3	94.9	21.8	73.1
1969	2,396.5	2,316.3	380.6	40.7	<sup>d</sup>	1,895.0	80.2	20.6	59.6
1970	2,740.9	2,672.0	487.0	54.1	1,436.7	694.2	68.9	17.4	51.5
1971	2,288.8	2,229.8	444.5	40.2	1,214.8	530.3	59.0	12.9	46.1
1972	3,141.4	3,047.5	766.5	46.1	1,450.7	784.2	93.9	15.5	78.4
1973	3,366.1	3,252.2	973.0	29.7	1,469.0	780.5	113.9	15.7	98.2
1974	2,642.4	2,523.7	752.7	35.6	1,244.6	490.8	118.7	7.8	110.9
1975	2,666.9	2,600.6	820.4	38.7	1,169.5	572.0	66.3	8.5	57.8
1976	3,250.0	3,155.7	1,022.4	38.4	1,365.7	729.2	94.3	7.4	86.9
1977	3,069.7	2,980.0	1,007.2	20.7	1,306.8	645.3	89.7	7.6	82.1
1978	3,409.2	3,298.4	1,192.2	29.2	1,443.6	633.4	110.8	8.8	102.0
1979	3,897.0	3,768.2	1,351.0	24.6	1,593.7	799.0	128.8	6.8	122.0
1980	3,260.9	3,109.1	1,272.4	14.0	1,183.1	639.6	151.8	9.4	142.4
1981	2,534.2	2,377.1	1,026.9	16.9	867.5	465.8	157.1	7.7	149.5
1982	3,208.1	3,115.0	1,446.5	12.4	1,124.9	531.2	93.2	4.7	88.4
1983	3,502.1	3,390.6	1,616.4	9.5	1,147.5	617.3	111.5	4.6	106.9
1984	3,494.9	3,369.4	1,588.5	13.0	1,120.0	647.9	125.6	5.5	120.0
1985	3,843.2	3,732.0	1,785.5	14.8	1,304.7	626.9	111.2	5.5	105.7
1986	3,655.6	3,516.0	1,625.8	13.4	1,246.3	630.5	139.7	5.6	134.0
1987	4,109.2	3,959.9	1,864.8	12.7	1,385.3	697.1	149.3	6.2	143.1
1988	4,798.1	4,594.4	2,311.2	19.8	1,435.5	827.9	203.7	8.0	195.7
1989	4,706.0	4,492.7	2,064.2	13.8	1,611.8	802.9	213.3	13.7	199.6
1990	4,213.1	3,993.6	1,891.7	11.0	1,193.7	897.1	219.5	13.6	205.9
1991	3,761.0	3,477.7	1,608.7	9.3	1,049.0	810.8	283.3	11.6	271.7
1992	3,278.8	3,054.8	1,402.9	10.3	890.3	751.3	224.0	12.4	211.6
1993	2,876.4	2,639.2	1,186.6	4.2	673.5	774.9	237.1	9.4	227.7
1994	2,683.6	2,419.7	1,174.9	4.1	535.3	705.4	263.8	11.2	252.6
1995	2,820.0	2,552.1	1,128.2	2.3	660.7	760.9	267.9	7.6	260.3
1996	2,635.7	2,382.4	1,214.8	2.3	486.2	679.1	253.3	6.1	247.2
1997	2,398.0	2,078.0	808.3	2.9	419.5	847.3	320.0	6.4	313.6
1998	1,977.8	1,646.2	732.1	0.7	175.1	738.3	331.5	7.3	324.2
1999	2,038.2	1,665.1	672.7	1.1	222.2	769.1	373.1	8.0	365.1
2000	2,638.3	2,065.8	674.1	0.9	186.1	1,204.8	572.5	11.4	561.2
2001	2,519.2	1,921.0	555.3	0.4	155.3	1,210.0	598.2	13.1	585.1
2002	2,428.5	1,744.9	535.0	0.7	121.6	1,087.7	683.6	17.8	665.8
2003	2,224.4	1,636.8	495.6	0.9	123.6	1,016.7	587.6	19.2	568.4
2004	2,286.5	1,597.6	543.3	0.2	91.5	962.6	688.9	22.5	666.4
2005	2,157.3	1,606.9	476.2	0.4	76.8	1,053.5	550.4	24.7	525.6
2006	2,117.5	1,630.7	460.0	0.3	76.5	1,093.9	486.8	28.5	458.4
2007	2,188.8	1,675.5	476.6	0.2	119.5	1,079.2	513.3	41.6	471.6
2008	1,959.0	1,523.6	512.3	0.1	146.6	864.6	435.4	30.0	405.4
2009	2,013.5	1,644.3	664.2	0.0	189.2	790.9	369.2	16.7	352.5
2010	2,541.8	2,073.6	635.1	0.0	371.0	1,067.5	468.2	28.0	440.2
2011	3,030.7	2,622.0	1,035.3	0.0	517.8	1,068.8	408.7	30.4	378.2
2012	2,698.0	2,280.3	764.8	0.3	440.9	1,074.3	417.7	21.3	396.4
2013	2,897.4	2,549.5	1,033.8	0.3	513.3	1,002.1	347.9	19.8	328.1
2014	2,778.1	2,335.7	827.4	0.3	514.7	993.2	442.4	24.7	417.8
2015	1,741.5	1,411.3	493.6	0.2	258.4	659.1	330.2	23.2	307.0
2016	1,871.6	1,514.9	441.3	0.1	277.4	796.1	356.7	22.1	334.6
2017	1,887.8	1,522.1	424.0	0.2	272.3	825.6	365.8	30.6	335.2

<sup>a</sup>Prior to 2000, pulpwood logs are not included in logs. Data may not add to totals because of rounding.<sup>b</sup>American Forest and Paper Association 1965–1999 (4); U.S. International Trade Commission 2000–present (86).<sup>c</sup>U.S. International Trade Commission (87).<sup>d</sup>Western hemlock is included in Other.

**Table 19—Log exports by major region of destination, 1965–2017**  
 (million board feet, Scribner log scale)<sup>a,c</sup>

Year	Total	Canada	European		South		
			Union <sup>b</sup>	Japan	Korea	China	Other
1965	1,195.0	355.1	29.4	804.4	2.8	<sup>d</sup>	3.3
1966	1,391.2	266.1	17.2	1,081.4	25.2	<sup>d</sup>	1.3
1967	1,972.1	335.5	20.5	1,585.5	29.9	<sup>d</sup>	0.7
1968	2,568.1	341.8	28.7	2,119.2	75.1	<sup>d</sup>	3.3
1969	2,396.5	324.6	29.6	2,007.3	32.2	<sup>d</sup>	2.8
1970	2,740.9	291.8	23.1	2,366.1	48.2	<sup>d</sup>	11.7
1971	2,288.8	339.9	20.5	1,847.1	73.9	<sup>d</sup>	7.4
1972	3,141.4	519.1	31.9	2,528.0	53.8	<sup>d</sup>	8.6
1973	3,366.1	417.8	41.5	2,779.5	113.7	<sup>d</sup>	13.6
1974	2,642.4	332.3	39.1	2,114.2	149.2	<sup>d</sup>	7.6
1975	2,666.9	277.6	35.3	2,256.4	86.4	<sup>d</sup>	11.2
1976	3,250.0	362.5	48.6	2,675.1	150.5	<sup>d</sup>	13.3
1977	3,069.7	350.0	46.0	2,460.1	203.3	<sup>d</sup>	10.3
1978	3,409.2	368.5	57.5	2,646.1	321.8	<sup>d</sup>	15.3
1979	3,897.0	407.6	65.4	3,149.1	258.9	<sup>d</sup>	16.0
1980	3,260.9	317.8	90.4	2,544.2	201.7	87.8	19.0
1981	2,534.2	247.4	56.1	1,774.2	151.6	222.4	82.5
1982	3,208.1	302.5	47.8	1,978.7	277.7	547.0	54.4
1983	3,502.1	347.1	57.4	2,028.0	320.9	723.2	25.6
1984	3,494.9	421.2	52.6	1,759.8	289.1	866.6	105.7
1985	3,843.2	445.4	39.1	1,899.1	327.5	1069.0	63.1
1986	3,655.6	450.0	76.7	2,089.4	364.5	615.4	59.6
1987	4,109.2	421.4	62.6	2,397.2	492.5	579.3	156.3
1988	4,798.1	378.9	78.8	2,415.6	612.0	1121.4	191.4
1989	4,706.0	272.7	93.6	2,992.7	761.5	454.3	131.2
1990	4,213.1	395.8	69.2	2,626.2	619.2	361.9	140.8
1991	3,761.0	423.6	53.4	2,126.8	624.7	371.8	160.8
1992	3,278.8	415.0	44.2	2,043.0	416.6	236.9	123.1
1993	2,876.4	389.9	41.1	1,881.9	303.1	131.3	129.1
1994	2,683.6	435.1	56.8	1,821.6	206.1	75.0	89.0
1995	2,820.0	715.7	47.5	1,728.3	235.2	20.2	73.1
1996	2,635.7	518.0	32.1	1,807.5	200.3	15.9	61.9
1997	2,398.0	711.0	42.1	1,347.7	205.6	18.2	73.4
1998	1,977.8	778.5	47.1	1,004.0	61.9	17.8	68.5
1999	2,038.2	787.8	48.2	998.3	130.1	7.8	66.1
2000	2,638.3	1,349.6	117.7	934.1	137.3	21.5	78.2
2001	2,519.2	1,453.9	78.0	745.7	129.6	29.5	82.5
2002	2,428.5	1,362.2	58.1	676.0	136.8	45.0	150.4
2003	2,224.4	1,194.6	75.5	649.7	168.7	40.0	95.8
2004	2,286.5	1,110.3	72.6	642.2	157.2	74.4	229.8
2005	2,157.3	1,168.0	66.8	573.5	174.6	93.8	80.5
2006	2,117.5	1,100.9	73.9	559.6	207.9	104.3	71.0
2007	2,188.8	944.8	118.5	566.7	273.4	149.7	135.7
2008	1,959.0	671.0	117.8	658.1	344.2	168.5	0.8
2009	2,013.5	875.8	76.5	435.0	298.1	270.4	57.7
2010	2,541.8	835.4	81.0	424.7	290.0	780.1	130.7
2011	3,030.7	718.7	73.6	457.7	283.4	1383.9	113.5
2012	2,698.0	753.6	97.8	468.7	184.4	1051.9	141.5
2013	2,897.4	641.4	34.3	530.8	175.4	1398.8	116.8
2014	2,778.1	593.2	33.9	477.8	144.8	1385.2	143.2
2015	1,741.5	507.1	28.4	323.6	69.1	740.5	72.8
2016	1,871.6	463.5	21.4	314.0	65.5	941.5	65.7
2017	1,887.8	385.8	19.7	303.1	75.9	1028.3	75.0

<sup>a</sup>U.S. International Trade Commission (86,87). Data may not add to totals because of rounding.

<sup>b</sup>European Union includes Austria, Belgium–Luxembourg, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Spain, Sweden, and UK.

<sup>c</sup>Prior to 2000, pulpwood logs are not included in logs.

<sup>d</sup>Fewer than 50,000 board feet.

Table 20—Average stumpage prices for sawtimber sold from National Forests, by selected species, 1965–2017 (dollars per thousand board feet)<sup>a</sup>

Year	Softwoods				Hardwoods			
	Douglas-fir <sup>b</sup>	Southern pine <sup>c</sup>	Ponderosa pine <sup>d</sup>	Western hemlock <sup>e</sup>	All eastern hardwoods <sup>f</sup>	Oak white, red, and black	Current	Sugar maple <sup>g</sup>
	Current dollars	Current dollars	Current dollars	Current dollars	2009	2009	2009	Current dollars
1965	42.6	234.5	174.5	19.8	109.0	19.1	25.0	137.6
1966	50.0	267.5	206.5	19.8	105.9	105.1	25.0	21.3
1967	41.7	216.5	38.3	188.9	22.2	115.3	23.0	117.2
1968	61.2	304.5	42.2	210.0	30.2	150.2	35.6	23.2
1969	82.2	390.1	51.7	245.4	71.0	337.0	45.1	24.1
1970	41.9	188.8	44.1	198.7	32.1	144.7	20.5	16.8
1971	49.0	209.9	52.2	223.6	37.6	161.0	20.6	18.7
1972	71.7	294.1	65.6	289.1	65.8	201.0	24.6	21.2
1973	138.1	535.9	93.4	362.4	92.3	358.2	9.0	10.4
1974	202.4	722.9	76.2	272.1	100.6	359.3	110.8	17.3
1975	169.5	554.3	57.0	186.4	71.2	232.8	68.8	17.3
1976	176.2	543.7	87.0	268.4	101.8	314.1	79.7	23.6
1977	225.9	654.0	100.3	290.4	131.4	380.4	89.3	24.6
1978	250.3	677.8	134.5	364.2	164.7	446.0	113.6	30.4
1979	394.4	988.0	155.2	388.8	239.0	598.7	200.8	34.3
1980	432.2	994.2	155.4	357.5	206.1	474.1	212.7	34.3
1981	350.2	737.3	172.0	362.1	195.2	410.9	163.4	34.3
1982	118.2	234.6	127.2	252.5	66.9	132.8	44.5	34.9
1983	161.6	308.1	140.6	268.1	104.0	198.3	62.2	34.9
1984	132.9	244.3	139.4	256.3	122.7	225.6	61.8	34.9
1985	126.2	225.0	90.7	161.7	101.4	180.8	50.5	34.9
1986	160.7	280.4	103.6	180.8	156.6	273.3	74.7	34.9
1987	190.2	322.5	135.7	230.1	209.3	354.9	105.4	34.9
1988	286.0	420.0	141.9	232.8	182.1	288.8	162.9	34.9
1989	389.8	615.8	313.4	495.1	292.0	481.1	223.3	34.9
1990	466.4	709.0	126.7	192.6	252.2	383.4	203.0	34.9
1991	395.0	581.6	166.1	244.6	237.6	349.8	164.1	34.9
1992	477.2	685.9	198.4	285.2	292.3	420.2	164.6	34.9
1993	317.8	446.1	217.2	304.9	555.2	751.3	363.7	34.9
1994	632.4	897.0	265.9	281.4	400.6	480.3	334.8	34.9
1995	453.5	610.3	248.5	334.4	149.9	297.1	130.8	34.9
1996	453.0	598.5	281.1	331.6	270.0	356.6	289.3	34.9
1997	331.4	429.1	307.3	397.9	270.2	349.9	211.3	34.9
1998	294.2	352.9	287.8	328.1	204.9	262.1	161.4	34.9
1999	314.7	396.8	268.5	338.6	181.0	228.3	95.7	34.9
2000	433.4	535.2	358.1	318.8	154.6	191.0	46.1	34.9
2001	255.4	308.1	153.5	185.2	115.5	139.3	34.0	34.9
2002	184.8	220.5	166.4	198.5	117.8	140.5	73.2	34.9
2003	193.2	230.5	163.6	195.2	111.2	132.6	86.0	34.9
2004	93.1	104.5	183.0	205.3	65.4	73.4	63.2	34.9
2005	320.5	348.4	192.8	209.6	103.3	112.3	70.1	34.9
2006	z	z	112.5	118.6	41.3	39.2	101.1	34.9
2007	z	z	176.4	181.2	60.9	62.6	54.6	34.9
2008	z	z	152.7	153.8	33.5	33.8	46.2	34.9
2009	z	z	z	z	z	z	77.5	34.9
2010	z	z	z	z	z	z	65.9	34.9
2011	z	z	z	z	z	z	83.3	34.9
2012	z	z	z	z	z	z	88.7	34.9
2013	z	z	z	z	z	z	58.2	34.9
2014	z	z	z	z	z	z	60.2	34.9
2015	z	z	z	z	z	z	69.0	34.9
2016	z	z	z	z	z	z	96.6	34.9
2017	z	z	z	z	z	z	108.5	34.9

<sup>a</sup> U.S. Department of Agriculture, Forest Service (46,52). Forest Service National Forest prices in this table are for timber sold on a Scribner Decimal C log rule basis, except in the Northeastern states where International 1/4-in. log rule is used. Prices include KV payments and exclude timber sold by land exchanges and from land utilization project lands. Data for the years 1965 to 1983 are statistical high bid prices. Data from 1984 to April 1999 are high bid prices that include specified road costs. After April 1999, it no longer included specific road costs. 1997 dollars derived by dividing the price in current dollars by the Bureau of Labor Statistics producer price index for all commodities (1997 = 100).

<sup>b</sup>Southern Region.

<sup>c</sup>Pacific Southwest Region (prior to January 1979 called the California Region); includes Jeffrey pine.

<sup>d</sup>Pacific Northwest Region.

<sup>e</sup>Eastern and Southern Regions.

<sup>f</sup>Not Available.

**Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2017<sup>a</sup>**

Species and region <sup>b</sup>	Volume <sup>c</sup> <i>Thousand board feet</i>	Value <sup>d</sup> <i>Thousand dollars</i>	Average price per thousand board feet <i>Dollars</i>	Average price per thousand board feet						
				Species and region	Volume <i>Thousand board feet</i>	Value <i>Thousand dollars</i>	Value <i>Dollars</i>			
<b>SOFTWOODS, WESTERN</b>										
<b>Cedar</b>										
Alaska cedar:				Fir—Con.						
Pacific Northwest (6)	0	0.0	0.00	True fir:						
Alaska (10)	11	2.1	190.45	Rocky Mountain (2)	4,063	27.5	6.77			
Total	11	2.1	190.45	Southwestern (3)	181	2.2	12.05			
Incense cedar:				Pacific Southwest (5)	0	0.0	0.00			
Pacific Southwest (5)	5,941	94.4	15.89	Pacific Northwest (6)	0	0.0	0.00			
Pacific Northwest (6)	0	0.0	0.00	Total	4,244	29.7	7.00			
Total	5,941	94.4	15.89	Hemlock						
Port-Orford-cedar:				Mountain hemlock:						
Pacific Southwest (5)	0	0.0	0.00	Pacific Southwest (5)	0	0.0	0.00			
Pacific Northwest (6)	3	3.2	1,061.67	Pacific Northwest (6)	0	0.0	0.00			
Total	3	3.2	1,061.67	Total	0	0.0	0.00			
Western redcedar:				Western hemlock:						
Northern (1)	29	3.2	111.76	Northern (1)	4	0.3	65.50			
Pacific Northwest (6)	28	1.7	59.04	Pacific Northwest (6)	28,113	3,051.0	108.53			
Alaska (10)	273	69.7	255.31	Alaska (10)	5,445	15.5	2.84			
Total	330	74.6	226.04	Total	33,562	3,066.7	91.38			
Douglas-fir				Western larch:						
East side:				Northern (1)	18	1.6	87.9			
Northern (1)	102,357	8,269.1	80.79	Intermountain (4)	0	0.0	0.00			
Rocky Mountain (2)	2,469	32.9	13.34	Pacific Northwest (6)	121	11.9	98.1			
Southwestern (3)	1,492	12.3	8.24	Total	139	13.5	96.8			
Intermountain (4)	42,262	2,747.3	65.01	Pine						
Pacific Northwest (6)	354,018	44,504.8	125.71	Lodgepole pine:						
Total	502,598	55,566.3	110.56	Northern (1)	27,536	2,755.7	100.08			
West side:				Rocky Mountain (2)	54,379	1,161.9	21.37			
Pacific Southwest (5)	0	0.0	0.00	Intermountain (4)	5,765	377.8	65.53			
Pacific Northwest (6)	0	0.0	0.00	Pacific Southwest (5)	1,005	3.9	3.84			
Total	0	0.0	0.00	Pacific Northwest (6)	31,752	1,354.3	42.65			
Fir				Total	120,437	5,653.5	46.94			
Grand fir:				Ponderosa pine <sup>e</sup> :						
Northern (1)	29,840	4,316.4	144.65	Northern (1)	11,695	601.6	51.44			
Intermountain (4)	8,760	1,432.6	163.54	Rocky Mountain (2)	93,928	4,881.9	51.98			
Pacific Northwest (6)	5,461	116.0	21.24	Southwestern (3)	112,067	13,674.6	122.02			
Total	44,061	5,865.0	133.11	Intermountain (4)	23,880	1,891.7	79.22			
Noble fir:				Pacific Southwest (5)	8,131	272.4	33.50			
Pacific Northwest (6)	0	0.0	0.00	Pacific Northwest (6)	58,404	2,376.1	40.68			
Shasta fir:				Total	308,105	23,698.3	76.92			
Pacific Northwest (6)	2	0.0	4.50	Sugar pine:						
Subalpine fir:				Pacific Southwest (5)	2,830	47.9	16.93			
Northern (1)	0	0.0	0.00	Pacific Northwest (6)	169	6.7	39.64			
Rocky Mountain (2)	588	8.6	14.64	Total	2,999	54.6	18.21			
Southwestern (3)	224	1.5	6.67	Western white pine:						
Intermountain (4)	332	22.9	68.98	Northern (1)	104	14.3	137.18			
Pacific Northwest (6)	0	0.0	0.00	Southwestern (3)	9	0.1	10.00			
Total	1,144	33.0	28.85	Pacific Southwest (5)	2	0.0	7.50			
White fir:				Pacific Northwest (6)	0	0.0	0.00			
Rocky Mountain (2)	355	7.6	21.41	Total	115	14.4	124.97			
Intermountain (4)	0	0.0	0.00	Pine not specified by species:						
Pacific Northwest (6)	51,051	4,058.0	79.49	Northern (1)	0	0.0	0.00			
Total	51,406	4,065.6	79.09	Southwestern (3)	0	0.0	0.00			
				Total	0	0.0	0.00			
				Spruce						
				Black, red, and white spruce						
				Alaska (10)	0	0.0	0.00			

Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2017<sup>a</sup>—con.

Species and region <sup>b</sup>	Volume <sup>c</sup> Thousand board feet	Value <sup>d</sup> Thousand dollars	Average price per thousand board feet Dollars	Species and region	Volume Thousand board feet	Value Thousand dollars	Average price per thousand board feet Dollars							
<b>SOFTWOODS, WESTERN—con.</b>														
<i>Spruce—con.</i>														
Engelmann spruce:				Softwoods not specified										
Northern (1)	1,895	302.3	159.53	by species:										
Rocky Mountain (2)	53,206	812.7	15.27	Southern (8)	20	0.4	18.95							
Southwestern (3)	15	0.096	6.40	Eastern (9)	3,434	234.7	68.35							
Intermountain (4)	591	25.0	42.37	Total	3,454	235.1	68.06							
Pacific Northwest (6)	0	0.0	0.00	Total, eastern softwoods	80,439	8,888.0	110.49							
Total	55,707	1,140	20.47	Total, softwoods	1,238,159	109,210.2	88.20							
<i>Sitka spruce:</i>				<b>HARDWOODS, WESTERN</b>										
Pacific Northwest (6)	24	7.5	312.50	Alder										
Alaska (10)	25,000	933.2	37.33	Pacific Northwest (6)	314	30.7	97.77							
Total	25,024	940.7	37.59	Aspen										
Softwoods not specified				Rocky Mountain (2)	0	0.0	0.00							
by species:				Southwestern (3)	56	0.1	2.02							
Northern (1)	0	0.0	0.00	Intermountain (4)	664	14.6	21.98							
Rocky Mountain (2)	0	0.0	0.00	Total	720	14.7	20.43							
Southwestern (3)	0	0.0	0.00	<b>HARDWOODS, EASTERN</b>										
Intermountain (4)	36	0.5	14.28	Ash										
Pacific Southwest (5)	0	0.0	0.00	Southern (8)	2	0.1	26.50							
Pacific Northwest (6)	1,856	6.0	3.25	Eastern (9)	2,513	899.7	358.02							
Alaska (10)	0	0.0	0.00	Total	2,515	899.8	357.75							
Total	1,892	6.5	3.46	Aspen										
Total, western softwoods	1,157,720	100,322	86.65	Eastern (9)	1,669	71.3	42.70							
<b>SOFTWOODS, EASTERN</b>														
Cedar				Basswood										
Southern (8)	290	7.1	24.61	Southern (8)	0	0.0	0.00							
Eastern (9)	0	0.0	0.00	Eastern (9)	689	5.9	8.52							
Total	290	7.1	24.61	Total	689	5.9	8.52							
Cypress				Beech										
Southern (8)	0	0.0	0.00	Eastern (9)	202	19.2	94.84							
Fir				Birch										
True fir:				Paper birch:										
Eastern (9)	0	0.0	0.00	Eastern (9)	410	33.8	82.42							
Hemlock				Yellow birch:										
Eastern hemlock:				Eastern (9)	257	53.5	208.33							
Southern (8)	0	0.0	0.00	Cherry										
Eastern (9)	247	17.4	70.56	Black cherry:										
Total	247	17.4	70.56	Southern (8)	1	0.2	186.00							
Pine				Eastern (9)	5,995	4,904.0	818.01							
Eastern white pine:				Total	5,996	4,904.2	817.90							
Southern (8)	4,392	313.0	71.26	Hickory										
Eastern (9)	2,311	44.8	19.41	Southern (8)	0	0.0	0.00							
Total	6,703	357.8	53.38	Maple										
Jack pine:				Red maple:										
Eastern (9)	4,091	281.6	68.83	Southern (8)	1	0.0	4.70							
Red pine:				Eastern (9)	2,803	686.2	244.80							
Eastern (9)	36,150	3,853.7	106.60	Total	2,804	686.2	244.72							
Red and white eastern pine:				Sugar maple:										
Eastern (9)	16,942	2,637.0	155.65	Southern (8)	0	0.0	0.00							
Southern pine:				Eastern (9)	5,098	1,634.6	320.63							
Southern (8)	0	0.0	0.00	Total	5,098	1,634.6	320.63							
Eastern (9)	2,280	106.7	46.80	Maple not specified										
Total	2,280	106.7	46.80	by species:										
Virginia pine:				Southern (8)	0	0.0	0.00							
Southern (8)	0	0.0	0.00	Eastern (9)	1,526	112.1	73.46							
Pine not specified				Total	1,526	112.1	73.46							
by species:														
Eastern (9)	8,240	1,182.3	143.48											
Spruce														
Black, red, and white spruce:														
Eastern (9)	2,042	209.2	102.45											

Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2017<sup>a</sup>—con.

Species and region <sup>b</sup>	Average price per thousand board feet			Species and region	Average price per thousand board feet		
	Volume <sup>c</sup> Thousand board feet	Value <sup>d</sup> Thousand dollars	Dollars		Volume Thousand board feet	Value Thousand dollars	Dollars
<b>HARDWOODS, EASTERN—con.</b>							
Oak				Poplar			
Chestnut oak:				Yellow poplar:			
Southern (8)	150	32.6	217.27	Southern (8)	1,025	144.6	141.07
Eastern (9)	12	3.0	247.50	Eastern (9)	4,619	257.1	55.66
Total	162	35.6	219.51	Total	5,644	401.7	71.17
Red and black oak:				Yellow poplar, basswood and cucumber:			
Southern (8)	260	74.5	286.53	Southern (8)	1,285	83.0	64.55
Eastern (9)	3,864	694.3	179.68	Hardwoods not specified by species:			
Total	4,124	768.8	186.41	Southern (8)	20,217	1,977.8	97.83
Scarlet oak:				Eastern (9)	47,703	9,713.9	203.63
Southern (8)	21	1.6	78.19	Total	67,920	11,691.7	172.14
Eastern (9)	45	5.9	130.80	Total, eastern hardwoods	112,547	23,331	207.30
Total	66	7.5	114.06	Total, hardwoods	113,581	23,377	205.81
White oak:				Total, softwoods and hardwoods	1,351,740	132,587	98.09
Southern (8)	433	149.9	346.21				
Eastern (9)	837	118.6	141.66				
Total	1,270	268.5	211.40				
Oak not specified by species:							
Southern (8)	5,565	1,023.5	183.92				
Eastern (9)	5,345	630.6	117.98				
Total	10,910	1,654.1	151.62				

<sup>a</sup>U.S. Department of Agriculture, Forest Service (51); Data may not add to totals because of rounding; The stumpage prices shown in this table do not necessarily indicate values for any specific tract of public or private timber, and prices received for individual tracts may vary widely because of differences in timber quality, degree of competition, timber accessibility, variations in special costs, methods of allocating overhead costs by species, or other factors; excludes pulpwood and miscellaneous products and also excludes timber sold by land exchanges and from land in utilization projects.

<sup>b</sup>Administrative regions of the Forest Service. Region area numbers: 1–6, 8–10. See p. iii.

<sup>c</sup>Scribner Decimal C log rule except in the Northeastern states timber where international 1/4-in. log rule is used.

<sup>d</sup>High bid prices, which include specified road costs KV payments.

<sup>e</sup>Includes small amounts of Jeffrey pine.

**Table 22—Average stumpage prices for sawtimber sold from private lands in Louisiana, by selected species, 1965–2017 (dollars per thousand board feet, Doyle log scale)<sup>a</sup>**

Year	Southern pine		Ash		Gums		Oaks	
	Current dollars	2009 dollars <sup>b</sup>	Current dollars	2009 dollars	Current dollars	2009 dollars	Current dollars	2009 dollars
1965	28.40	156.30	22.60	124.38	17.50	96.31	16.20	89.16
1966	34.30	183.52	23.00	123.06	19.50	104.33	17.90	95.77
1967	36.80	191.07	23.30	120.98	19.50	101.25	17.70	91.90
1968	40.70	202.49	25.60	127.36	20.00	99.50	19.00	94.53
1969	50.10	237.78	31.80	150.93	22.60	107.26	21.50	102.04
1970	46.40	209.10	28.10	126.63	21.00	94.64	20.40	91.93
1971	56.00	239.83	26.60	113.92	21.90	93.79	20.80	89.08
1972	66.30	271.94	28.50	116.90	23.80	97.62	23.10	94.75
1973	84.20	326.74	41.50	161.04	32.30	125.34	30.20	117.19
1974	90.90	324.64	48.20	172.14	36.80	131.43	35.50	126.79
1975	81.60	266.84	45.70	149.44	35.40	115.76	34.10	111.51
1976	101.10	311.94	45.80	141.31	37.20	114.78	37.30	115.09
1977	119.90	347.13	49.70	143.89	39.70	114.94	40.60	117.54
1978	156.20	422.96	59.40	160.84	46.20	125.10	46.50	125.91
1979	211.50	529.81	74.20	185.87	51.90	130.01	53.40	133.77
1980	189.20	435.24	70.20	161.49	53.10	122.15	55.50	127.67
1981	185.00	389.47	70.20	147.79	52.00	109.47	55.60	117.05
1982	144.60	287.02	71.10	141.13	53.70	106.59	57.50	114.13
1983	160.70	306.39	103.80	197.90	67.30	128.31	71.60	136.51
1984	158.80	291.97	109.00	200.40	68.00	125.02	72.70	133.66
1985	118.20	210.73	88.30	157.43	57.30	102.16	62.50	111.43
1986	112.30	195.95	87.90	153.38	53.70	93.70	64.70	112.89
1987	147.30	249.79	z	z	59.30	100.56	79.00	133.97
1988	161.00	264.15	134.20	220.18	62.10	101.89	101.20	166.04
1989	169.10	267.14	133.80	211.37	65.30	103.16	98.30	155.29
1990	182.60	277.59	141.10	214.50	81.90	124.51	106.50	161.90
1991	194.30	286.07	123.60	181.98	67.60	99.53	89.00	131.04
1992	222.60	319.97	289.30	415.84	78.10	112.26	136.90	196.78
1993	273.30	383.63	z	z	z	z	153.00	214.77
1994	330.50	454.42	z	z	z	z	205.00	281.86
1995	389.56	524.24	z	z	z	z	252.75	340.13
1996	344.57	455.18	z	z	z	z	203.00	268.16
1997	412.39	533.98	z	z	z	z	289.75	375.18
1998	406.76	520.29	z	z	z	z	276.50	353.67
1999	368.70	464.94	z	z	z	z	285.00	359.39
2000	392.35	484.56	z	z	z	z	270.00	333.46
2001	351.12	423.60	z	z	z	z	321.00	387.26
2002	368.41	439.53	z	z	z	z	290.00	345.98
2003	348.46	415.72	z	z	z	z	319.00	380.58
2004	372.40	417.82	z	z	z	z	306.00	343.32
2005	384.37	417.84	z	z	z	z	315.00	342.43
2006	380.38	401.16	z	z	z	z	276.00	291.08
2007	417.62	429.08	z	z	z	z	313.00	321.59
2008	331.17	333.71	z	z	z	z	230.00	231.76
2009	289.94	289.94	z	z	z	z	207.00	207.00
2010	307.23	303.98	z	z	z	z	258.00	255.27
2011	259.02	250.99	z	z	z	z	278.00	269.38
2012	260.68	248.27	z	z	z	z	366.50	349.05
2013	264.67	247.98	z	z	z	z	299.00	280.15
2014	293.93	271.48	z	z	z	z	372.00	343.59
2015	229.75	208.84	z	z	z	z	364.25	331.10
2016	219.75	197.23	z	z	z	z	379.50	340.62
2017	196.50	173.24	z	z	z	z	372.25	328.18

<sup>a</sup>TimberMart-South (39); Louisiana Department of Agriculture (25).

<sup>b</sup>Derived by dividing the price in current dollars by the Bureau of Labor

Statistics producer price index for all commodities (1997 = 100).

<sup>z</sup>Not available.

**Table 23—Veneer log production, by softwoods and hardwoods, 1965–2017 (million board feet, local log rule)<sup>b</sup>**

Year	All species <sup>a</sup>	Softwoods <sup>c</sup>	Hardwoods <sup>c</sup>
1965	6,275	5,425	850
1966	6,315	5,610	705
1967	6,305	5,610	695
1968	6,880	6,150	730
1969	6,430	5,750	680
1970	6,642	5,863	779
1971	7,215	6,515	700
1972	7,810	7,070	740
1973	7,750	7,090	660
1974	7,560	6,945	615
1975	8,185	7,545	640
1976	8,417	7,795	623
1977	7,960	7,360	600
1978	8,150	7,560	590
1979	7,690	7,085	605
1980	7,649	7,040	609
1981	7,710	7,095	615
1982	7,504	6,885	619
1983	7,736	7,110	626
1984	7,970	7,335	635
1985	8,460	7,810	650
1986	9,062	8,398	664
1987	9,370	8,700	670
1988	9,261	8,580	681
1989	8,814	8,119	695
1990	8,662	7,942	720
1991	8,037	7,276	761
1992	7,876	7,101	775
1993	7,796	6,995	801
1994	7,735	6,881	854
1995	7,626	6,700	926
1996	7,560	6,583	977
1997	7,581	6,601	980
1998	7,671	6,707	964
1999	7,802	6,812	990
2000	7,870	6,855	1,015
2001	6,825	5,773	1,052
2002	6,596	5,600	997
2003	7,222	6,299	923
2004	7,158	6,272	886
2005	7,100	6,259	842
2006	6,825	5,983	842
2007	6,586	5,871	715
2008	6,081	5,482	599
2009	5,972	5,381	591
2010	4,726	4,051	675
2011	4,126	3,656	471
2012	4,059	3,600	459
2013	3,992	3,544	448
2014	3,925	3,487	437
2015	3,857	3,431	426
2016	3,790	3,375	415
2017	3,723	3,319	404

<sup>a</sup>U.S. Department of Agriculture, Forest Service (53).<sup>b</sup>Data may not add to totals because of rounding.<sup>c</sup>Source: Estimates (20).

**Table 24—Pulpwood consumption, production, imports, exports, and the equivalent wood volumes of imports and exports of paper, board, and wood pulp, 1965–2017 (thousand cords)<sup>a</sup>**

Year	U.S. total consumption <sup>b</sup>	Consumption in U.S. mills							Paper, board, and wood pulp (pulpwood equivalent)					
		Domestic productions			Roundwood <sup>c,d</sup>			Net imports	Imports	Exports	Net imports			
		Total	Total	Total	Softwoods	Hardwoods	Residue <sup>b,e,p</sup>				Imports	Exports	Imports	Exports
1965	63,519	54,034	52,884	39,129	28,201	10,928	13,755	1,150	1,305	155	9,485	13,487	4,001	
1966	67,429	57,399	56,294	41,809	29,900	11,910	14,484	1,105	1,385	280	10,030	14,367	4,337	
1967	67,377	58,419	57,469	41,441	29,967	11,474	16,028	950	1,590	640	8,958	13,789	4,831	
1968	69,214	60,969	60,734	43,535	31,690	11,845	17,199	235	1,425	1,190	8,245	13,643	5,398	
1969	73,428	64,577	65,257	47,499	34,239	13,260	17,758	-680	980	1,660	8,851	14,956	6,105	
1970	73,308	66,732	67,577	49,467	37,212	12,255	18,110	-845	1,120	1,965	6,576	14,310	7,734	
1971	74,286	66,601	66,906	46,295	33,533	12,763	20,610	-305	1,225	1,530	7,685	14,375	6,690	
1972	75,685	68,068	69,023	45,311	31,784	13,527	23,712	-955	1,020	1,975	7,616	14,263	6,646	
1973	80,294	71,421	72,891	46,269	31,496	14,773	26,622	-1,470	1,200	2,670	8,873	15,483	6,610	
1974	84,452	75,787	77,957	50,394	34,268	16,126	27,563	-2,170	965	3,135	8,665	17,057	8,392	
1975	69,231	63,941	65,821	41,029	29,035	11,993	24,792	-1,880	765	2,645	5,290	12,172	6,882	
1976	78,092	71,094	73,249	45,527	31,856	13,671	27,722	-2,155	1,115	3,270	6,998	14,019	7,021	
1977	80,486	72,952	74,972	44,538	31,022	13,516	30,434	-2,020	1,350	3,370	7,534	14,548	7,014	
1978	84,346	75,073	76,453	46,722	31,778	14,943	29,731	-1,380	1,675	3,055	9,272	16,205	6,933	
1979	87,651	78,680	81,065	50,699	35,389	15,310	30,366	-2,385	1,405	3,790	8,971	16,847	7,786	
1980	87,055	81,921	84,031	52,107	36,941	15,166	31,925	-2,110	1,590	3,700	5,134	16,256	11,122	
1981	86,814	81,003	82,468	51,390	35,685	15,704	31,079	-1,465	1,490	2,955	5,811	15,579	9,768	
1982	82,127	76,912	77,862	49,093	33,829	15,264	28,769	-950	1,405	2,355	5,215	14,302	9,087	
1983	91,044	84,504	84,829	51,612	33,413	18,199	33,217	-325	1,715	2,040	6,540	16,312	9,772	
1984	95,854	86,282	86,377	52,324	33,945	18,379	34,054	-95	1,825	1,920	9,572	18,697	9,125	
1985	95,325	85,380	86,600	52,698	33,097	19,602	33,901	-1,220	650	1,870	9,945	19,198	9,253	
1986	100,144	91,187	92,502	57,723	35,630	22,094	34,779	-1,315	630	1,945	8,957	19,974	11,017	
1987	102,445	93,005	94,590	58,538	37,172	21,367	36,052	-1,585	430	2,015	9,440	20,882	11,442	
1988	101,737	93,000	95,030	59,342	37,359	21,984	35,688	-2,030	735	2,765	8,737	20,779	12,042	
1989	100,276	92,615	93,831	59,924	37,755	22,169	33,907	-1,216	988	2,204	7,661	20,341	12,679	
1990	99,361	92,561	93,936	61,758	39,559	22,199	32,178	-1,376	917	2,293	6,801	19,847	13,046	
1991	95,484	91,925	93,246	62,701	40,213	22,488	30,545	-1,321	1,025	2,346	3,559	18,305	14,746	
1992	96,146	93,642	95,238	63,489	39,918	23,571	31,749	-1,596	857	2,453	2,504	18,451	15,947	
1993	96,090	90,996	92,759	62,122	37,621	24,501	30,637	-1,764	745	2,509	5,094	19,485	14,392	
1994	98,142	93,259	95,327	63,698	38,312	25,387	31,629	-2,068	544	2,612	4,883	19,965	15,082	
1995	97,052	93,013	94,999	69,808	41,173	28,635	25,191	-1,986	303	2,290	4,039	20,474	16,435	
1996	90,190	88,246	90,439	66,697	39,641	27,056	23,742	-2,193	334	2,527	1,943	17,979	16,036	
1997	95,247	92,312	95,038	68,354	39,943	28,411	26,684	-2,726	357	3,083	2,935	20,186	17,251	
1998	96,305	90,591	93,371	68,134	40,580	27,554	25,237	-2,780	231	3,011	5,713	20,653	14,939	
1999	94,265	86,969	89,908	64,048	37,157	26,890	25,861	-2,940	144	3,084	7,296	21,077	13,780	
2000	95,904	87,453	89,888	64,775	37,965	26,810	25,113	-2,435	150	2,585	8,452	22,951	14,499	
2001	92,181	83,384	85,240	62,033	36,200	25,833	23,207	-1,856	79	1,935	8,797	22,618	13,821	
2002	90,500	82,715	84,030	60,494	34,901	25,593	23,536	-1,315	66	1,381	7,785	22,222	14,437	
2003	97,295	85,001	85,375	62,616	37,742	24,874	22,758	-373	189	563	12,294	24,080	11,786	
2004	107,137	101,394	102,195	48,924	33,109	15,815	53,271	-801	437	1,238	5,743	20,241	14,498	
2005	104,807	100,048	100,852	50,086	33,561	16,525	50,766	-804	411	1,215	4,759	19,816	15,057	
2006	105,254	100,414	101,211	50,472	34,174	16,298	50,739	-797	309	1,107	4,840	19,990	15,150	
2007	102,010	99,223	100,617	53,058	36,585	16,473	47,559	-1,394	107	1,501	2,786	19,148	16,362	
2008	96,437	96,203	98,035	53,630	37,573	16,057	44,405	-1,832	49	1,881	234	18,321	18,086	
2009	86,601	88,270	89,669	51,144	36,783	14,361	38,525	-1,399	28	1,427	-1,669	15,281	16,950	
2010	89,306	92,209	93,689	53,326	38,092	15,234	40,363	-1,480	91	1,571	-2,903	15,870	18,773	
2011	89,167	94,254	95,507	54,216	38,937	15,279	41,291	-1,253	98	1,350	-5,087	15,716	20,803	
2012	90,744	95,017	96,270	55,629	40,613	15,016	40,641	-1,253	98	1,350	-4,273	15,526	19,799	
2013	87,319	95,125	95,499	54,416	39,828	14,588	41,083	-374	50	424	-7,806	16,486	24,292	
2014	86,714	93,565	93,881	53,416	39,949	13,467	40,465	-316	69	385	-6,851	16,999	23,849	
2015	84,979	92,061	92,465	53,735	40,100	13,635	38,730	-404	65	469	-7,082	16,160	23,241	
2016	85,798	91,824	91,949	53,854	40,695	13,159	38,095	-125	101	225	-6,027	16,812	22,839	
2017	84,152	90,852	90,872	53,206	40,137	13,069	37,666	-20	39	59	-6,700	16,518	23,218	

<sup>a</sup>American Forest and Paper Association (3); American Pulpwood Association (10).

<sup>b</sup>Chips produced from roundwood and byproducts from primary processing plants, such as slabs, edgings, and veneer cores.

<sup>c</sup>Howard and Westby (20).

<sup>d</sup>Johnson and others (24).

<sup>e</sup>Preliminary.

<sup>f</sup>Revised.

Table 25—Pulpwood production, by region<sup>a</sup> and softwoods and hardwoods, 1965–2017 (million cords)<sup>b,d,e</sup>

Year <sup>c</sup>	All sections		North			South		West				
	Total	Soft-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	
1965	52.88	40.10	12.80	9.0	4.1	4.9	31.2	23.8	7.4	12.7	12.2	0.5
1966	56.29	42.10	14.20	10.3	4.4	5.9	33.1	25.4	7.7	12.9	12.3	0.6
1967	57.47	43.60	13.90	10.3	4.5	5.8	33.6	25.9	7.7	13.6	13.2	0.4
1968	60.73	46.60	14.10	9.8	4.3	5.5	36.5	28.3	8.2	14.4	14.0	0.4
1969	65.26	48.80	16.50	10.3	4.1	6.2	40.0	30.2	9.8	15.0	14.5	0.5
1970	67.58	50.70	16.90	11.3	4.6	6.7	41.1	31.4	9.7	15.2	14.7	0.5
1971	66.91	50.30	16.60	10.5	4.0	6.5	41.1	31.5	9.6	15.3	14.8	0.5
1972	69.02	51.00	18.00	10.7	4.0	6.7	42.3	31.7	10.6	16.0	15.3	0.7
1973	72.89	52.70	20.20	12.8	4.6	8.2	43.4	32.1	11.3	16.7	16.0	0.7
1974	77.96	55.80	22.20	13.9	5.1	8.8	46.1	33.6	12.5	18.0	17.1	0.9
1975	65.82	50.10	15.70	10.4	4.2	6.2	40.7	31.7	9.0	14.7	14.2	0.5
1976	73.25	54.10	19.10	12.2	4.8	7.4	44.3	33.2	11.1	16.7	16.1	0.6
1977	74.97	55.70	19.30	12.5	4.9	7.6	45.2	34.2	11.0	17.3	16.6	0.7
1978	76.45	55.30	21.20	13.0	5.2	7.8	47.7	35.0	12.7	15.8	15.1	0.7
1979	81.06	58.30	22.80	14.0	5.5	8.5	50.2	36.7	13.5	16.9	16.1	0.8
1980	84.03	60.60	23.40	14.3	5.7	8.6	50.7	36.9	13.8	19.0	18.0	1.0
1981	82.47	59.60	22.90	13.9	5.6	8.3	51.6	37.7	13.9	17.0	16.3	0.7
1982	77.86	56.30	21.60	13.1	5.9	7.2	50.2	36.6	13.6	14.6	13.8	0.8
1983	84.83	59.90	24.90	14.4	5.6	8.8	53.9	38.5	15.4	16.5	15.8	0.7
1984	86.38	61.10	25.30	14.7	6.0	8.7	54.4	38.7	15.7	17.3	16.4	0.9
1985	86.60	60.60	26.00	14.6	5.8	8.8	56.2	39.9	16.3	15.8	14.9	0.9
1986	92.50	64.00	28.50	15.2	5.7	9.5	59.9	42.0	17.9	17.4	16.3	1.1
1987	94.59	65.60	29.00	15.4	5.8	9.6	61.5	43.2	18.3	17.7	16.6	1.1
1988	95.03	65.70	29.30	14.8	5.4	9.4	61.8	42.9	18.9	18.4	17.4	1.0
1989	93.83	64.30	29.50	14.0	5.1	8.9	62.8	43.3	19.5	17.0	15.9	1.1
1990	93.94	63.10	30.80	14.0	5.0	9.0	65.4	44.6	20.8	14.5	13.5	1.0
1991	93.25	62.40	30.80	14.2	5.2	9.0	66.8	45.8	21.0	12.2	11.4	0.8
1992	95.24	59.80	35.40	13.9	5.0	8.9	70.9	45.0	25.9	10.4	9.8	0.6
1993	92.76	55.70	37.10	15.0	5.6	9.4	71.9	44.8	27.1	5.9	5.3	0.6
1994	95.33	56.10	39.20	15.4	5.6	9.8	74.7	45.8	28.9	5.2	4.7	0.5
1995	95.00	61.09	33.91	15.0	6.7	8.3	72.6	48.1	24.5	7.4	6.3	1.1
1996	90.44	58.67	31.77	14.5	6.6	7.9	69.6	46.7	22.9	6.4	5.4	0.9
1997	95.04	61.45	33.59	15.2	6.8	8.4	74.1	50.0	24.1	5.7	4.6	1.1
1998	93.37	60.30	33.07	14.6	6.3	8.3	72.4	48.9	23.5	6.3	5.1	1.2
1999	89.91	57.71	32.20	13.8	6.0	7.8	70.7	47.5	23.2	5.4	4.3	1.2
2000	89.89	57.84	32.05	14.1	6.1	8.1	70.1	47.2	22.9	5.7	4.6	1.1
2001	85.24	54.38	30.86	13.4	5.8	7.7	67.0	44.8	22.2	4.8	3.8	1.0
2002	84.03	53.68	30.35	13.1	5.5	7.6	66.4	44.8	21.7	4.5	3.5	1.1
2003	85.37	55.63	29.74	13.3	5.4	8.0	67.3	46.5	20.9	4.7	3.8	0.9
2004	102.20	70.40	31.80	14.7	7.9	6.8	80.2	57.1	23.1	7.3	5.4	1.9
2005	100.85	69.67	31.18	14.6	7.8	6.8	79.2	56.6	22.6	7.1	5.3	1.8
2006	101.21	69.69	31.52	14.6	7.7	6.8	79.5	56.7	22.8	7.1	5.3	1.8
2007	100.62	70.73	29.89	14.3	7.7	6.6	79.4	57.8	21.6	6.9	5.2	1.7
2008	98.04	69.42	28.61	13.8	7.4	6.4	77.6	57.0	20.7	6.6	5.1	1.6
2009	89.67	64.48	25.19	12.4	6.7	5.6	71.3	53.1	18.2	6.0	4.6	1.4
2010	93.69	67.57	26.12	13.0	7.1	5.9	74.5	55.6	18.8	6.2	4.9	1.4
2011	95.51	69.17	26.33	13.2	7.3	5.9	75.9	56.9	19.0	6.4	5.0	1.4
2012	96.27	70.05	26.22	13.1	7.3	5.9	76.7	57.8	18.9	6.4	5.0	1.4
2013	95.50	69.62	25.88	13.0	7.3	5.8	76.1	57.4	18.7	6.4	5.0	1.4
2014	93.88	69.48	24.41	12.6	7.2	5.4	74.9	57.3	17.6	6.3	5.0	1.4
2015	92.47	68.50	24.12	12.5	7.1	5.4	74.0	56.6	17.4	6.2	4.8	1.3
2016	91.95	68.85	23.21	12.3	7.1	5.2	73.7	56.9	16.8	6.1	4.9	1.3
2017	90.87	67.98	22.89	12.1	7.0	5.1	72.7	56.2	16.5	6.0	4.8	1.2

<sup>a</sup>The West includes: Alaska, Arizona, California, Idaho, Montana, Oregon, and Washington.<sup>b</sup>The South includes: Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.<sup>c</sup>The North includes: Illinois, Indiana, Iowa, Maine, Michigan, Minnesota, Missouri, New York, Ohio, Pennsylvania, and Wisconsin.<sup>d</sup>American Pulpwood Association (9); data may not add to totals because of rounding.<sup>e</sup>All numbers were revised; values include chip production.<sup>f</sup>Data for the years 1989 to present are domestic receipts at pulp mills.<sup>g</sup>Howard and others (20).<sup>h</sup>Johnson and others (24).

**Table 26—Pulpwood stumpage prices of Louisiana and northern New Hampshire,  
1965–2017 (dollars per cord)**

Year	Louisiana <sup>a</sup>				Northern New Hampshire <sup>b</sup>			
	Southern pine		Hardwoods		Hemlock and pine <sup>c</sup>		Spruce and fir	
	Current dollars	2009 dollars <sup>d</sup>	Current dollars	2009 dollars	Current dollars	2009 dollars	Current dollars	2009 dollars
1965	4.40	24.22	1.60	8.81	1.75	9.63	4.50	24.77
1966	4.55	24.34	1.70	9.10	2.60	13.91	5.25	28.09
1967	4.60	23.88	1.75	9.09	2.10	10.90	5.25	27.26
1968	4.65	23.13	1.85	9.20	2.00	9.95	5.25	26.12
1969	4.65	22.07	1.90	9.02	1.85	8.78	4.50	21.36
1970	4.70	21.18	1.95	8.79	1.75	7.89	4.50	20.28
1971	4.75	20.34	z	z	1.75	7.49	4.50	19.27
1972	4.75	19.48	2.10	8.61	2.00	8.20	4.50	18.46
1973	5.20	20.18	2.40	9.31	2.00	7.76	4.50	17.46
1974	6.05	21.61	2.70	9.64	2.65	9.46	5.50	19.64
1975	6.40	20.93	2.80	9.16	2.65	8.67	6.00	19.62
1976	6.70	20.67	2.80	8.64	2.65	8.18	6.50	20.06
1977	7.10	20.56	2.95	8.54	2.65	7.67	6.50	18.82
1978	7.80	21.12	3.15	8.53	2.90	7.85	7.00	18.95
1979	9.30	23.30	3.65	9.14	3.75	9.39	8.00	20.04
1980	10.30	23.69	4.10	9.43	5.00	11.50	8.00	18.40
1981	12.65	26.63	4.30	9.05	5.00	10.53	8.00	16.84
1982	14.30	28.38	4.50	8.93	5.00	9.92	8.00	15.88
1983	14.85	28.31	4.80	9.15	5.00	9.53	8.50	16.21
1984	17.65	32.45	4.35	8.00	5.00	9.19	8.50	15.63
1985	15.20	27.10	4.40	7.84	4.00	7.13	9.00	16.05
1986	12.05	21.03	4.30	7.50	3.75	6.54	9.00	15.70
1987	13.85	23.49	5.35	9.07	3.75	6.36	9.00	15.26
1988	15.95	26.17	5.20	8.53	3.50	5.74	10.00	16.41
1989	18.33	28.96	5.54	8.75	4.00	6.32	11.00	17.38
1990	17.88	27.18	5.45	8.29	6.00	9.12	12.50	19.00
1991	20.80	30.62	8.19	12.06	6.00	8.83	14.00	20.61
1992	23.50	33.78	7.84	11.27	5.75	8.27	11.75	16.89
1993	25.07	35.19	9.77	13.71	6.00	8.42	16.50	23.16
1994	23.51	32.33	10.12	13.91	11.50	15.81	12.00	16.50
1995	24.35	32.77	10.40	14.00	z	z	z	z
1996	23.84	31.49	12.63	16.68	z	z	z	z
1997	23.95	31.01	15.05	19.49	z	z	z	z
1998	29.24	37.40	17.06	21.82	2.95	3.78	2.27	2.91
1999	26.28	33.13	13.75	17.33	2.95	3.73	2.27	2.87
2000	23.33	28.82	10.32	12.74	2.73	3.37	2.50	3.09
2001	21.36	25.77	13.54	16.33	2.73	3.29	2.50	3.02
2002	19.52	23.29	14.94	17.82	2.73	3.25	2.50	2.98
2003	19.10	22.79	16.16	19.28	2.23	2.66	3.64	4.34
2004	18.88	21.18	16.44	18.44	2.64	2.96	4.05	4.54
2005	22.68	24.65	19.69	21.41	2.45	2.67	3.32	3.61
2006	18.50	19.51	14.67	15.47	2.50	2.64	3.13	3.30
2007	27.80	28.56	17.18	17.65	2.65	2.72	3.56	3.66
2008	27.20	27.40	20.25	20.40	4.85	4.89	6.18	6.23
2009	23.51	23.51	18.76	18.76	4.12	4.12	5.48	5.48
2010	25.60	25.33	25.27	25.00	4.42	4.37	7.73	7.65
2011	22.18	21.49	17.20	16.66	3.64	3.52	10.57	10.24
2012	22.40	21.33	23.91	22.77	3.16	3.01	4.08	3.88
2013	22.58	21.16	22.82	21.38	3.88	3.63	4.75	4.45
2014	22.40	20.69	23.91	22.08	3.13	2.89	4.38	4.04
2015	25.53	23.21	32.23	29.30	z	z	z	z
2016	27.49	24.67	26.76	24.02	z	z	z	z
2017	25.62	22.58	22.23	19.60	z	z	z	z

<sup>a</sup>Louisiana Department of Agriculture, Office of Marketing (25).

<sup>b</sup>New Hampshire University, Cooperative Extension Service, and

New Hampshire Department of Resources and Economic Development (32).

<sup>c</sup>Includes tamarack.

<sup>d</sup>Derived by dividing the price in current dollars by the Bureau of Labor Statistics producers price index for all commodities (2009 = 100).

<sup>z</sup>Data not available.

**Table 27—Pulpwood prices of Louisiana and northern New Hampshire, 1965–2017**  
 (dollars per standard cord, including bark)<sup>a</sup>

Year	Louisiana <sup>b</sup>				Northern New Hampshire <sup>c</sup>					
	Southern pine		Hardwoods		Hemlock and pine <sup>d</sup>		Spruce and fir <sup>f</sup>		Hardwoods <sup>g</sup>	
	Current dollars	2009 dollars <sup>e</sup>	Current dollars	2009 dollars	Current dollars	2009 dollars	Current dollars	2009 dollars	Current dollars	2009 dollars
1965	15.70	86.41	13.65	75.12	16.85	92.74	21.00	115.58	16.50	90.81
1966	16.50	88.28	14.80	79.19	17.75	94.97	22.00	117.71	17.50	93.63
1967	16.50	85.67	14.85	77.10	20.25	105.14	22.40	116.30	17.50	90.86
1968	17.00	84.58	16.30	81.09	19.55	97.26	22.15	110.20	z	z
1969	17.75	84.24	17.40	82.58	19.45	92.31	23.20	110.11	18.90	89.70
1970	17.75	79.99	17.45	78.64	19.50	87.88	23.40	105.45	20.00	90.13
1971	z	z	z	z	19.50	83.51	23.40	100.21	20.25	86.72
1972	19.25	78.96	19.00	77.93	19.25	78.96	23.75	97.42	22.00	90.24
1973	22.50	87.31	22.00	85.37	20.40	79.16	25.50	98.95	23.50	91.19
1974	28.30	101.07	24.95	89.11	21.25	75.89	30.00	107.14	26.50	94.64
1975	29.25	95.65	26.20	85.68	25.15	82.24	30.50	99.74	28.50	93.20
1976	30.45	93.95	26.10	80.53	30.40	93.80	31.50	97.19	31.65	97.66
1977	31.65	91.63	27.20	78.75	32.50	94.09	36.50	105.67	33.00	95.54
1978	34.55	93.56	28.30	76.63	34.50	93.42	39.00	105.61	35.00	94.77
1979	38.95	97.57	32.05	80.29	36.65	91.81	44.00	110.22	37.00	92.69
1980	41.45	95.35	33.60	77.29	36.65	84.31	46.00	105.82	41.50	95.47
1981	44.20	93.05	34.20	72.00	41.50	87.37	49.00	103.16	44.00	92.63
1982	46.95	93.19	35.25	69.97	41.50	82.37	49.00	97.26	44.00	87.34
1983	47.60	90.75	35.30	67.30	41.50	79.12	49.00	93.42	46.50	88.66
1984	42.75	78.60	z	z	41.50	76.30	49.00	90.09	47.50	87.33
1985	49.20	87.72	37.50	66.86	41.50	73.99	49.00	87.36	46.50	82.90
1986	48.10	83.93	35.40	61.77	41.50	72.41	49.50	86.37	47.00	82.01
1987	50.65	85.89	45.35	76.90	41.50	70.37	49.50	83.94	47.00	79.70
1988	52.25	85.73	46.85	76.87	41.50	68.09	50.50	82.85	47.50	77.93
1989	55.19	87.19	46.49	73.44	41.50	65.56	50.50	79.78	51.00	80.57
1990	55.64	84.58	47.86	72.76	48.50	73.73	56.75	86.27	50.75	77.15
1991	61.04	89.87	52.37	77.11	50.00	73.62	66.75	98.28	50.75	74.72
1992	64.11	92.15	46.85	67.34	47.00	67.56	66.00	94.87	49.50	71.15
1993	66.15	92.86	51.54	72.35	49.00	68.78	65.00	91.24	49.50	69.48
1994	57.55	79.13	55.23	75.94	65.50	90.06	44.00	60.50	50.50	69.43
1995	67.93	91.41	73.06	98.32	z	z	z	z	z	z
1996	62.55	82.63	57.45	75.89	z	z	z	z	z	z
1997	72.30	93.62	70.19	90.88	z	z	z	z	z	z
1998	74.87	95.77	58.55	74.89	49.77	63.66	27.50	35.18	58.50	74.83
1999	64.61	81.48	53.24	67.14	49.77	62.76	27.50	34.68	58.50	73.77
2000	59.11	73.00	51.53	63.64	49.77	61.47	22.83	28.20	58.50	72.25
2001	59.64	71.95	64.97	78.37	49.77	60.04	27.50	33.18	58.50	70.58
2002	60.66	72.37	65.59	78.25	49.77	59.38	27.50	32.81	58.50	69.79
2003	61.74	73.66	69.16	82.51	64.17	76.56	35.09	41.87	33.21	39.62
2004	62.41	70.02	67.28	75.49	66.13	74.19	34.25	38.42	33.30	37.36
2005	67.58	73.46	75.67	82.26	53.14	57.77	36.50	39.68	31.17	33.88
2006	61.45	64.81	67.41	71.09	66.25	69.87	25.00	26.37	32.00	33.75
2007	70.66	72.60	71.85	73.82	67.25	69.09	27.00	27.74	32.25	33.13
2008	79.70	80.31	81.90	82.53	69.50	70.03	40.63	40.94	32.25	32.50
2009	73.20	73.20	73.23	73.23	65.50	65.50	39.88	39.88	31.26	31.26
2010	78.73	77.90	83.34	82.46	95.75	94.74	17.00	16.82	148.68	147.11
2011	72.71	70.46	74.50	72.19	74.15	71.85	23.25	22.53	164.00	158.91
2012	75.97	72.35	84.08	80.08	72.00	68.57	38.25	36.43	108.75	103.57
2013	77.94	73.03	89.20	83.58	72.75	68.16	40.25	37.71	103.75	97.21
2014	77.93	71.98	93.69	86.53	82.40	76.11	40.25	37.18	103.75	95.83
2015	79.58	72.34	81.20	73.81	z	z	z	z	z	z
2016	81.30	72.97	81.04	72.73	z	z	z	z	z	z
2017	79.77	70.32	76.53	67.47	z	z	z	z	z	z

<sup>a</sup>All numbers reflect the delivered timber price.<sup>b</sup>TimberMart-South (39); Louisiana Department of Agriculture, Office of Marketing (25); f.o.b. car.<sup>c</sup>New Hampshire University, Cooperative Extension Service, and New Hampshire Department of Resources and Economic Development (32).<sup>d</sup>Includes tamarack, softwood hemlock, and softwood red pine.<sup>e</sup>Derived by dividing price in current dollars by the Bureau of Labor Statistics producer price.<sup>f</sup>Low grade average of four quarters.<sup>g</sup>Average of four quarters.

index for all commodities (2009 = 100).

<sup>z</sup>Not Available.

Table 28—Lumber production, imports, exports, and consumption, by softwoods and hardwoods, 1965–2017<sup>a</sup>

Year	Production			Imports			Exports			Consumption			Per capita consumption		
	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods	Total	Soft- woods <sup>b</sup>	Hard- woods	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods
	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Board feet	Board feet	Board feet							
1965	38.7	29.3	9.4	5.2	4.8	0.4	0.9	0.8	0.1	43.0	33.3	9.7	221	171	50
1966	38.6	28.8	9.8	5.1	4.8	0.3	1.0	0.9	0.2	42.7	32.8	10.0	217	167	51
1967	37.5	28.2	9.3	6.2	5.8	0.3	1.1	1.0	0.2	42.5	33.0	9.5	214	166	48
1968	38.0	29.3	8.7	6.3	5.9	0.4	1.2	1.0	0.1	43.2	34.1	9.1	215	170	45
1969	37.1	28.3	8.7	6.1	5.8	0.3	1.1	1.0	0.1	42.0	33.1	8.9	207	163	44
1970	35.9	27.5	8.3	7.6	7.2	0.4	1.2	1.1	0.1	42.2	33.6	8.6	206	164	42
1971	38.5	30.0	8.4	9.4	9.0	0.4	1.1	0.9	0.2	46.8	38.1	8.7	225	183	42
1972	39.5	31.0	8.5	9.6	9.0	0.5	1.4	1.2	0.2	47.6	38.8	8.8	227	185	42
1973	40.4	31.6	8.8	7.3	6.8	0.4	2.0	1.8	0.2	45.7	36.7	9.0	216	173	43
1974	36.2	27.7	8.4	6.0	5.7	0.3	1.8	1.6	0.2	40.4	31.9	8.5	189	149	40
1975	34.1	26.7	7.3	8.2	8.0	0.3	1.6	1.4	0.2	40.7	33.3	7.4	188	154	34
1976	37.7	29.7	8.0	10.7	10.4	0.3	1.8	1.6	0.2	46.5	38.5	8.1	213	176	37
1977	40.2	31.7	8.5	12.2	11.9	0.4	1.7	1.4	0.2	50.8	42.2	8.6	231	191	39
1978	41.0	32.1	9.0	11.5	11.2	0.4	1.7	1.4	0.4	50.8	41.9	8.9	228	188	40
1979	40.7	31.4	9.3	9.9	9.6	0.3	2.1	1.8	0.4	48.5	39.2	9.2	215	174	41
1980	35.4	26.2	9.2	9.5	9.2	0.3	2.5	2.0	0.5	42.4	33.5	9.0	186	147	39
1981	32.2	24.7	7.5	9.4	9.1	0.2	2.4	1.9	0.5	39.1	31.9	7.2	170	139	31
1982	31.8	23.8	8.0	12.3	12.0	0.3	2.0	1.6	0.4	42.0	34.1	7.9	181	147	34
1983	38.5	29.7	8.8	13.6	13.3	0.3	2.3	1.8	0.5	49.9	41.3	8.6	213	176	37
1984	41.3	31.2	10.1	15.0	14.6	0.4	2.2	1.6	0.5	54.1	44.2	9.9	229	187	42
1985	40.9	31.3	9.6	14.6	14.2	0.3	1.8	1.4	0.4	53.7	44.1	9.6	225	185	40
1986	45.8	35.3	10.5	15.2	14.7	0.5	2.4	1.9	0.5	58.6	48.1	10.5	243	200	44
1987	49.5	38.2	11.3	13.8	13.5	0.3	3.2	2.4	0.7	60.1	49.3	10.8	248	203	45
1988	49.9	38.1	11.7	15.3	14.9	0.3	4.4	3.2	1.2	60.7	49.8	10.9	248	203	45
1989	49.6	37.5	12.1	13.1	12.9	0.2	4.2	3.3	0.8	58.5	47.1	11.5	237	190	46
1990	48.1	35.8	12.3	11.7	11.5	0.2	4.6	3.8	0.8	55.3	43.6	11.7	221	174	47
1991	44.3	33.2	11.2	13.4	13.2	0.3	3.9	3.0	0.9	53.9	43.4	10.5	213	172	42
1992	45.9	34.5	11.4	15.4	15.1	0.3	3.5	2.6	0.9	57.9	47.0	10.8	227	184	42
1993	45.2	32.9	12.2	16.6	16.2	0.4	3.3	2.3	1.0	58.5	46.9	11.6	227	182	45
1994	46.5	34.1	12.4	17.6	17.2	0.4	3.1	2.1	1.0	61.0	49.2	11.7	234	189	45
1995	44.9	32.2	12.6	18.4	18.0	0.4	2.9	1.9	1.1	60.3	48.4	12.0	229	184	45
1996	45.8	33.3	12.5	18.5	18.0	0.5	2.9	1.8	1.1	61.3	49.5	11.8	231	186	45
1997	47.3	34.7	12.7	19.2	18.7	0.5	2.9	1.7	1.2	63.6	51.6	12.0	238	193	45
1998	47.4	34.7	12.7	19.9	19.2	0.7	2.2	1.1	1.1	65.1	52.7	12.3	241	195	46
1999	49.5	36.6	12.9	20.2	19.4	0.8	2.5	1.4	1.2	67.2	54.7	12.5	246	200	46
2000	48.6	36.0	12.6	20.7	20.1	0.6	2.7	1.4	1.3	66.6	54.6	11.9	236	194	42
2001	46.4	34.6	11.8	21.7	21.0	0.7	2.2	1.0	1.2	65.9	54.6	11.4	232	192	40
2002	47.6	35.8	11.8	22.0	21.2	0.8	2.2	1.0	1.2	67.4	56.1	11.3	234	195	39
2003	47.1	36.6	10.5	25.5	24.5	1.0	2.1	1.0	1.2	70.5	60.1	10.3	242	207	35
2004	50.1	39.1	11.1	25.8	24.7	1.1	2.1	0.8	1.3	73.8	62.9	10.9	251	214	37
2005	50.9	39.8	11.2	23.5	22.8	0.8	2.2	0.9	1.3	72.3	61.6	10.6	244	208	36
2006	49.7	38.7	11.0	18.9	18.4	0.5	2.4	0.9	1.4	66.3	56.2	10.1	229	194	35
2007	45.8	35.2	10.6	13.0	12.7	0.4	2.2	1.0	1.2	56.6	46.8	9.8	188	155	32
2008	36.0	29.2	6.8	9.2	8.9	0.4	2.1	1.2	0.9	43.1	36.8	6.2	141	121	20
2009	30.2	23.2	7.0	9.8	9.5	0.3	1.8	1.0	0.8	38.2	31.7	6.5	124	103	21
2010	30.5	24.8	5.7	9.6	9.3	0.3	2.4	1.3	1.1	37.7	32.7	4.9	122	106	16
2011	33.3	26.8	6.6	10.2	9.9	0.3	2.9	1.7	1.2	40.6	35.0	5.7	130	112	18
2012	34.8	28.3	6.5	11.7	11.4	0.4	2.9	1.6	1.3	43.6	38.0	5.6	139	121	18
2013	37.3	30.0	7.3	13.2	12.7	0.4	3.3	1.8	1.5	47.2	40.9	6.3	149	129	20
2014	39.8	31.5	8.3	14.4	13.9	0.5	3.4	1.7	1.7	50.9	43.7	7.1	159	137	22
2015	40.3	32.0	8.3	16.7	16.3	0.4	3.1	1.6	1.5	54.0	46.8	7.2	168	146	22
2016	40.8	32.5	8.3	16.1	15.7	0.4	3.3	1.6	1.7	53.6	46.6	7.0	166	144	22
2017	42.2	33.9	8.3	0.0	0.0	0.0	3.6	1.7	1.9	38.6	32.2	6.4	118	99	20

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (57); American Forest and Paper Association (4); Luppold and Dempsey (26);

U.S. Department of Commerce, Bureau of the Census (56); U.S. Department of Agriculture, Foreign Agricultural Service (44);

U.S. Department of Agriculture, Forest Service (44); Hardwood Market Report (19): 2008–present.

Western Wood Products Association (88); U.S. International Trade Commission (86).

Data may not add to totals because of rounding; data have been revised.

<sup>b</sup>Includes small volumes of mixed species (not classified as softwoods or hardwoods).

Table 29—Lumber production, by region<sup>a</sup> and softwoods and hardwoods, 1965–2017 (billion board feet)<sup>b</sup>

Year	All regions			North			South		West <sup>c</sup>			
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
1965	38.7	29.3	9.4	4.4	1.1	3.3	12.7	6.8	5.9	21.6	21.4	0.2
1966	38.6	28.8	9.8	4.5	1.1	3.4	12.9	6.7	6.2	21.2	21.0	0.2
1967	37.5	28.2	9.3	5.3	1.7	3.6	12.5	6.7	5.8	19.7	19.6	0.1
1968	38.0	29.3	8.7	4.5	1.1	3.4	12.2	7.0	5.2	21.3	21.2	0.1
1969	37.1	28.3	8.7	4.6	1.1	3.5	12.3	7.3	5.0	20.1	19.9	0.2
1970	35.9	27.5	8.3	4.4	1.0	3.4	12.0	7.2	4.8	19.4	19.3	0.1
1971	38.5	30.0	8.4	4.4	1.1	3.3	12.9	7.9	5.0	21.1	21.0	0.1
1972	39.5	31.0	8.5	4.4	1.1	3.3	13.0	8.0	5.0	22.1	21.9	0.2
1973	40.4	31.6	8.8	4.6	1.1	3.5	13.2	8.0	5.2	22.6	22.5	0.1
1974	36.2	27.7	8.4	4.4	1.1	3.3	11.9	7.0	4.9	19.8	19.6	0.2
1975	34.1	26.7	7.3	4.1	1.1	3.0	11.1	7.0	4.1	18.8	18.6	0.2
1976	37.7	29.7	8.0	6.3	1.8	4.5	16.5	13.4	3.1	14.9	14.5	0.3
1977	40.2	31.7	8.5	6.7	1.9	4.8	17.6	14.3	3.3	15.9	15.6	0.3
1978	41.0	32.1	9.0	7.0	1.9	5.1	17.9	14.4	3.5	16.1	15.7	0.4
1979	40.7	31.4	9.3	7.1	1.9	5.3	17.8	14.1	3.6	15.8	15.4	0.4
1980	35.4	26.2	9.2	6.8	1.6	5.2	15.4	11.8	3.6	13.2	12.9	0.4
1981	32.2	24.7	7.5	5.7	1.5	4.3	14.0	11.1	2.9	12.4	12.1	0.3
1982	31.8	23.8	8.0	3.9	1.1	2.8	13.5	8.8	4.7	14.4	14.1	0.3
1983	38.5	29.7	8.8	4.4	1.3	3.1	15.7	10.3	5.4	18.4	18.2	0.2
1984	41.3	31.2	10.1	4.6	1.2	3.4	17.1	10.7	6.4	19.6	19.4	0.2
1985	40.9	31.3	9.6	4.6	1.2	3.4	15.9	10.2	5.7	20.4	20.2	0.2
1986	45.8	35.3	10.5	5.0	1.4	3.6	18.8	11.7	7.1	22.0	21.8	0.2
1987	49.5	38.2	11.3	5.3	1.5	3.8	19.9	12.3	7.6	24.3	24.0	0.3
1988	49.9	38.1	11.7	5.3	1.4	3.9	20.7	12.7	8.0	23.9	23.6	0.3
1989	49.6	37.5	12.1	4.4	1.2	3.2	21.2	12.3	8.9	24.0	23.7	0.3
1990	48.1	35.8	12.3	3.9	1.5	2.4	22.5	12.6	9.9	21.7	21.3	0.4
1991	44.3	33.2	11.2	4.8	1.5	3.3	20.0	12.1	7.9	19.5	19.1	0.4
1992	45.9	34.5	11.4	4.7	1.6	3.1	21.1	13.0	8.1	20.1	19.7	0.4
1993	45.2	32.9	12.2	7.8	1.9	5.9	21.0	15.4	5.6	16.4	16.0	0.4
1994	46.5	34.1	12.4	8.0	1.9	6.1	21.8	16.0	5.8	16.7	16.3	0.4
1995	44.9	32.2	12.6	8.1	1.9	6.1	21.1	15.3	5.8	15.6	15.2	0.4
1996	45.8	33.3	12.5	7.9	2.0	5.9	22.0	15.7	6.3	15.8	15.4	0.4
1997	47.3	34.7	12.7	8.6	1.4	7.2	22.6	17.7	4.9	16.1	15.6	0.5
1998	47.4	34.7	12.7	8.6	1.4	7.3	22.6	17.7	5.0	16.1	15.6	0.5
1999	49.5	36.6	12.9	8.8	1.5	7.4	23.7	18.7	5.0	17.0	16.5	0.5
2000	48.6	36.0	12.6	8.6	1.4	7.2	23.3	18.3	4.9	16.7	16.2	0.5
2001	46.4	34.6	11.8	8.1	1.4	6.7	22.3	17.6	4.6	16.0	15.6	0.5
2002	47.6	35.8	11.8	8.1	1.4	6.7	22.9	18.3	4.6	16.6	16.1	0.5
2003	47.1	36.6	10.5	7.4	1.5	6.0	22.8	18.7	4.1	16.9	16.5	0.4
2004	50.1	39.1	11.1	7.9	1.6	6.3	24.2	19.9	4.3	18.0	17.6	0.4
2005	50.9	39.8	11.2	8.0	1.6	6.4	24.6	20.3	4.4	18.3	17.9	0.4
2006	49.7	38.7	11.0	7.9	1.5	6.3	24.0	19.8	4.3	17.9	17.4	0.4
2007	45.8	35.2	10.6	7.5	1.4	6.1	22.1	17.9	4.1	16.2	15.8	0.4
2008	36.0	29.2	6.8	5.1	1.2	3.9	17.5	14.9	2.6	13.4	13.1	0.3
2009	30.2	23.2	7.0	4.9	0.9	4.0	14.6	11.9	2.7	10.7	10.5	0.3
2010	30.5	24.8	5.7	4.2	1.0	3.2	14.9	12.6	2.2	11.4	11.2	0.2
2011	33.3	26.8	6.6	4.8	1.1	3.8	16.2	13.6	2.6	12.3	12.0	0.3
2012	34.8	28.3	6.5	4.9	1.1	3.8	17.0	14.4	2.5	13.0	12.7	0.3
2013	37.3	30.0	7.3	5.4	1.2	4.2	18.2	15.3	2.9	13.8	13.5	0.3
2014	39.8	31.5	8.3	6.0	1.3	4.8	19.3	16.1	3.2	14.5	14.2	0.3
2015	40.3	32.0	8.3	6.2	1.5	4.8	19.9	16.7	3.2	14.2	13.9	0.3
2016	40.8	32.5	8.3	6.1	1.3	4.8	20.6	17.3	3.2	14.2	13.9	0.3
2017	42.2	33.9	8.3	6.4	1.6	4.8	21.5	18.2	3.2	14.4	14.1	0.3

<sup>a</sup>The West includes: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon,

South Dakota, Utah, Washington, and Wyoming. The South includes: Alabama, Arkansas, Florida,

Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.

The North includes the remaining 24 states.

<sup>b</sup>American Forest and Paper Association (4); Hardwood Market Report (19): 2008–present.

Data may not add to totals because of rounding.

<sup>c</sup>Western Wood Products Association (86).

Table 30—Lumber production in the U.S., 1965–2017 (million board feet)

Year	Softwood					Hardwood				
	Howard <sup>a</sup>	89 RPA <sup>b</sup>	USDC <sup>c,r</sup>	AF&PA <sup>d,r</sup>	VWPA <sup>e</sup>	Adams <sup>f</sup>	Howard <sup>g</sup>	89 RPA <sup>b</sup>	USDC <sup>g,f</sup>	Total
1965	29,295	29,295	29,240	28,230	28,149	29,295	9,440	9,431	7,467	7,655
1966	28,847	28,847	27,973	27,973	28,847	9,771	7,771	7,737	7,737	9,447
1967	28,172	28,172	28,172	27,069	26,978	28,172	9,311	9,311	7,430	9,320
1968	29,285	30,224	29,285	28,936	28,832	29,285	8,430	8,432	7,188	8,188
1969	28,342	28,342	28,342	27,900	28,193	28,342	7,844	7,849	7,482	8,482
1970	27,530	27,297	27,530	z	27,107	27,001	27,530	7,715	7,138	127
1971	30,039	30,040	30,039	z	29,432	29,327	30,039	8,107	8,106	6,949
1972	30,975	30,975	30,975	z	30,873	30,763	30,975	8,245	8,230	6,770
1973	31,586	31,586	31,586	z	31,289	31,149	31,586	8,792	8,792	7,009
1974	27,704	28,357	27,704	z	27,193	27,059	27,704	8,448	8,448	6,904
1975	26,747	26,148	26,747	z	25,602	25,602	26,747	7,304	7,304	6,046
1976	30,600	30,274	30,571	29,693	29,693	29,693	29,693	7,977	7,978	6,427
1977	32,700	32,169	32,661	31,737	31,737	31,737	31,737	8,500	8,500	6,701
1978	33,500	32,585	33,487	32,057	31,698	32,057	32,057	8,960	8,959	7,314
1979	33,300	31,942	33,255	31,432	31,432	31,432	31,432	9,308	9,308	7,007
1980	28,000	26,966	28,239	26,246	26,246	26,246	26,246	9,147	9,087	7,115
1981	25,400	24,956	25,432	24,676	24,676	24,676	24,676	8,046	8,018	6,252
1982	23,787	24,098	24,949	23,787	23,787	23,787	23,787	7,946	7,854	5,061
1983	29,726	29,991	28,926	29,726	29,547	29,726	29,547	8,767	8,822	5,627
1984	31,174	31,192	30,801	31,174	31,044	31,174	31,044	9,844	9,844	7,314
1985	31,321	30,853	30,479	31,321	31,321	31,321	31,321	9,537	9,474	6,966
1986	35,273	34,700	34,815	35,273	35,273	35,273	35,273	10,347	10,311	7,184
1987	37,410	37,410	36,845	38,130	38,130	37,826	38,130	8,039	8,235	6,252
1988	38,130	36,845	36,845	36,040	37,545	37,225	37,225	11,741	11,695	7,147
1989	37,545	36,224	35,791	35,791	35,459	35,459	35,459	11,944	11,944	7,147
1990	33,161	33,064	33,161	33,064	32,800	32,800	32,800	11,046	11,046	7,007
1991	33,161	33,704	34,526	34,526	34,151	34,151	34,151	11,423	11,423	7,007
1992	34,526	34,725	32,947	32,947	32,517	32,517	32,517	11,322	11,322	7,007
1993	32,947	32,947	35,556	34,107	33,657	34,107	33,657	11,108	10,910	4,445
1994	34,107	33,043	32,233	32,233	31,782	32,233	32,233	11,307	10,928	2,757
1995	32,233	33,266	34,065	34,065	34,545	34,545	34,545	11,944	11,944	12,415
1996	33,266	34,065	34,065	34,065	34,663	34,663	34,663	12,021	12,021	7,326
1997	34,667	35,457	34,867	34,867	34,678	34,678	34,678	12,921	12,921	7,326
1998	34,677	35,896	34,677	35,896	36,605	36,605	36,605	11,367	11,367	4,07
1999	36,605	38,033	36,605	37,147	35,964	35,964	35,964	12,729	12,729	12,729
2000	35,964	35,964	35,964	35,964	35,965	35,965	35,965	11,633	11,633	12,927
2001	35,481	35,479	34,581	34,581	34,579	34,579	34,579	11,834	11,834	12,927
2002	35,830	36,329	35,830	36,329	36,418	35,830	35,830	11,750	11,750	12,927
2003	36,607	36,687	36,607	36,687	36,608	36,608	36,608	10,494	10,494	12,673
2004	39,075	38,905	38,905	38,905	39,112	39,112	39,112	10,954	10,954	11,059
2005	39,770	39,770	39,770	39,770	40,785	39,770	39,770	11,158	11,158	11,158
2006	38,726	37,718	38,726	38,726	38,726	38,726	38,726	11,014	11,014	11,014
2007	35,158	33,751	35,158	35,158	35,158	35,158	35,158	11,834	11,834	12,927
2008	33,177	27,365	29,177	29,177	28,177	28,177	28,177	11,750	11,750	12,927
2009	23,240	21,912	23,240	23,240	23,240	23,240	23,240	10,494	10,494	12,673
2010	24,802	23,718	24,802	24,802	24,802	24,802	24,802	5,010	5,010	5,010
2011	26,754	26,754	26,754	26,754	26,754	26,754	26,754	5,339	5,339	5,659
2012	28,256	28,256	28,256	28,256	28,256	28,256	28,256	6,230	6,230	6,550
2013	29,982	z	29,982	29,982	29,982	29,982	29,982	7,019	7,019	6,535
2014	31,490	z	31,490	31,490	31,490	31,490	31,490	8,345	8,345	7,339
2015	32,028	z	z	z	z	z	z	8,276	8,276	8,276
2016	32,535	z	z	z	z	z	z	8,354	8,354	8,304
2017	33,888	z	z	z	z	z	z	8,388	8,388	8,308

<sup>a</sup>Data derived from Table 28.<sup>b</sup>U.S. Department of Agriculture, Forest Service (54).<sup>c</sup>U.S. Department of Commerce, Bureau of the Census (60).<sup>d</sup>U.S. Forest Products Association (4).<sup>e</sup>Western Wood Products Association (88).<sup>f</sup>Adams, Daniels (1).<sup>g</sup>Final estimated Forest Service softwood lumber production series: 1950–1975: USDC Bureau of the Census, 1998. 1976–present AF&PA 1998 (7).<sup>h</sup>Forest Service (26). Estimated Eastern hardwood lumber production.<sup>i</sup>Final estimated Forest Service hardwood lumber production series: 1965–1998: Luppold and Dempsey (26) plus USDC Bureau of the Census 1998–West (62).<sup>j</sup>1996–1999 numbers revised.<sup>k</sup>Not available.

Table 31—United States lumber imports, by softwoods and hardwoods and country of origin, 1965–2017 (million board feet)<sup>a</sup>

Year	All species				Softwoods				Hardwoods			
	Total	Canada	Mexico	Other <sup>b</sup>	Total <sup>c</sup>	Canada	Mexico	Other <sup>b</sup>	Total	Canada	Mexico	Other <sup>b</sup>
1965	5,232.4	5,016.6	10.1	205.7	4,898.1	4,855.7	8.1	34.3	334.3	160.9	2.0	171.4
1966	5,200.0	4,920.9	5.2	273.9	4,779.2	4,730.4	3.7	45.1	420.8	190.5	1.5	228.8
1967	5,140.8	4,902.5	5.6	232.7	4,798.1	4,747.1	3.1	47.9	342.7	155.4	2.5	184.8
1968	6,154.2	5,899.2	4.0	251.0	5,809.1	5,750.0	3.2	55.9	345.1	149.2	0.8	195.1
1969	6,300.6	5,963.4	6.6	330.6	5,854.0	5,784.4	5.8	63.8	446.6	179.0	0.8	266.8
1970	6,114.4	5,867.6	7.5	239.3	5,777.7	5,722.5	5.5	49.7	336.7	145.1	2.0	189.6
1971	7,589.4	7,314.5	6.5	268.4	7,231.7	7,172.0	4.9	54.8	357.7	142.5	1.6	213.6
1972	9,433.6	9,029.2	20.5	383.9	8,984.8	8,877.8	18.6	88.4	448.8	151.4	1.9	295.5
1973	9,568.6	8,999.3	20.4	548.9	9,019.9	8,843.9	17.5	158.5	548.7	155.4	2.9	390.4
1974	7,270.8	6,847.3	6.1	417.4	6,821.1	6,732.2	2.4	86.5	449.7	115.1	3.7	330.9
1975	5,975.8	5,738.8	28.5	208.5	5,723.8	5,677.0	0.4	46.4	252.0	61.8	28.1	162.1
1976	8,246.8	7,995.3	1.0	250.5	7,958.5	7,912.6	0.8	45.1	288.3	82.7	0.2	205.4
1977	10,713.3	10,408.0	7.0	298.3	10,369.6	10,327.0	1.2	41.4	343.7	81.0	5.8	256.9
1978	12,214.6	11,879.4	11.9	323.3	11,853.2	11,776.7	11.3	65.2	361.4	102.7	0.6	258.1
1979	11,529.5	11,187.6	4.7	337.2	11,153.3	11,100.9	3.1	49.3	376.2	86.7	1.6	287.9
1980	9,866.1	9,618.7	2.9	244.5	9,572.9	9,546.3	2.5	24.1	293.2	72.4	0.4	220.4
1981	9,523.2	9,285.4	1.8	236.0	9,232.1	9,208.1	1.5	22.5	291.1	77.3	0.3	213.5
1982	9,360.5	9,191.8	6.5	162.2	9,149.5	9,114.9	1.1	33.5	211.0	76.9	5.4	128.7
1983	12,253.5	12,039.6	13.6	200.3	11,993.0	11,962.7	12.0	18.3	260.5	76.9	1.6	182.0
1984	13,632.1	13,342.8	14.6	274.7	13,304.4	13,252.3	11.8	40.3	327.7	90.5	2.8	234.4
1985	14,995.6	14,636.1	12.2	347.3	14,632.0	14,531.7	11.8	88.5	363.6	104.4	0.4	258.8
1986	14,585.1	14,250.0	32.8	302.3	14,238.2	14,142.3	31.9	64.0	346.9	107.7	0.9	238.3
1987	15,191.5	14,763.3	55.1	373.1	14,680.4	14,600.8	54.1	25.5	511.1	162.5	1.0	347.6
1988	13,777.8	12,999.2	72.9	705.7	13,473.0	12,855.2	72.5	545.2	304.8	144.0	0.3	160.5
1989	15,258.4	13,964.2	193.4	1,100.8	14,909.0	13,761.2	193.0	954.8	349.4	202.9	0.4	146.0
1990	13,106.7	11,918.4	360.4	827.8	12,875.0	11,804.7	360.3	710.0	231.7	113.6	0.2	117.8
1991	11,725.2	11,517.6	48.0	159.6	11,515.0	11,410.8	47.8	56.4	210.2	106.8	0.2	103.2
1992	13,449.9	13,207.9	53.3	188.7	13,190.0	13,055.1	53.1	81.9	259.9	152.8	0.2	106.8
1993	15,399.5	15,059.7	51.7	288.1	15,086.0	14,856.2	51.6	178.3	313.5	203.5	0.2	109.8
1994	16,593.3	16,103.5	51.6	438.1	16,224.0	15,871.6	51.4	301.0	369.3	231.9	0.2	137.1
1995	17,556.3	16,989.5	108.8	458.0	17,202.0	16,780.5	106.2	315.3	354.3	209.0	2.7	142.7
1996	18,397.8	17,823.6	120.9	453.3	18,021.0	17,593.2	117.6	310.2	376.8	230.4	3.3	143.1
1997	18,451.2	17,535.7	124.4	791.1	18,000.0	17,235.5	120.0	644.5	451.2	300.2	4.4	146.6
1998	19,234.5	18,227.8	70.1	936.7	18,685.7	17,838.0	66.5	781.2	548.8	389.8	3.5	155.5
1999	19,854.2	18,486.5	58.3	1,309.4	19,178.0	18,021.2	56.9	1,099.9	676.2	465.4	1.4	209.5
2000	20,243.3	18,615.6	31.3	1,596.4	19,448.6	18,104.8	30.5	1,313.4	794.7	510.8	0.8	283.0
2001	20,720.1	18,930.3	27.7	1,762.1	20,074.5	18,503.0	27.2	1,544.3	645.6	427.3	0.5	217.8
2002	21,724.1	19,397.3	19.6	2,307.2	20,985.6	18,922.8	19.2	2,043.7	738.5	474.5	0.4	263.6
2003	21,981.2	19,709.0	15.3	2,256.9	21,187.7	19,257.8	15.0	1,914.9	793.5	451.2	0.3	342.0
2004	25,492.9	21,330.7	20.0	4,142.3	24,498.3	20,844.3	19.2	3,634.8	994.6	486.4	0.7	507.5
2005	25,753.1	21,840.7	16.0	3,896.5	24,678.0	21,367.6	15.0	3,295.4	1,075.1	473.1	1.0	601.0
2006	23,527.3	20,367.0	12.9	3,147.4	22,764.3	20,017.4	11.9	2,735.0	763.1	349.6	1.0	412.4
2007	18,906.0	16,775.4	13.1	2,117.6	18,385.0	16,571.6	12.2	1,801.2	521.0	203.7	0.8	316.4
2008	13,042.2	11,652.8	8.9	1,380.5	12,681.0	11,516.6	7.7	1,156.7	361.2	136.2	1.2	223.8
2009	9,236.3	8,393.0	3.5	839.8	8,855.0	8,303.0	2.1	549.9	381.3	90.0	1.4	289.9
2010	9,768.7	9,150.5	2.8	615.4	9,468.0	9,033.0	2.0	433.0	300.7	117.5	0.8	182.4
2011	9,632.8	8,945.5	2.3	685.1	9,289.0	8,848.0	1.4	439.6	343.8	97.5	0.9	245.5
2012	10,171.5	9,633.2	2.5	535.8	9,864.0	9,528.0	1.3	334.7	307.5	105.2	1.2	201.2
2013	11,712.9	11,043.9	2.9	666.1	11,358.0	10,915.0	1.0	442.0	354.9	128.9	1.9	224.1
2014	13,170.1	12,311.0	5.1	854.1	12,729.0	12,138.0	0.8	590.2	441.1	173.0	4.3	263.9
2015	14,429.2	13,412.7	7.6	1,008.8	13,947.0	13,259.0	1.9	686.1	482.2	153.7	5.7	322.8
2016	16,730.0	15,554.9	15.4	1,159.8	16,323.0	15,404.0	1.8	917.2	407.0	150.9	13.6	242.6
2017	16,058.4	14,478.8	3.8	1,575.8	15,704.0	14,317.0	2.9	1,384.1	354.4	161.8	0.9	191.6

<sup>a</sup>U.S. Department of Agriculture, Foreign Agricultural Service (44); U.S. International Trade Commission (86,87);

U.S. Department of Commerce, Bureau of the Census (58,60); Western Wood Products Association (88).

Data may not add to totals because of rounding.

<sup>b</sup>For the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.<sup>c</sup>Includes small volumes of hardwoods.

Table 32—United States lumber exports, by softwoods and hardwoods and country or region of destination, 1965–2017 (million board feet)<sup>a</sup>

Year	Total	All species						Softwoods						Hardwoods					
		Canada	Central America and South America <sup>b</sup>	European Union <sup>b</sup>	Japan	Other	Total	Canada	European Union	Central America and South America	Japan	Other	Total	Canada	European Union	Central America and South America	Japan	Other	
1965	919.1	285.1	249.4	1.1	105.7	277.8	778.9	184.0	229.3	1.0	103.1	261.5	140.2	101.1	20.1	0.1	2.6	16.3	
1966	1,022.6	309	250.2	1.3	174.4	287.7	867.9	186.5	230.3	1.2	171.3	278.6	154.7	122.5	19.9	0.1	3.1	9.1	
1967	1,129.5	338	261.0	1.1	265.8	263.6	965.5	207.6	241.0	1.1	260.7	254.8	164.3	130.4	20.0	0.1	5.1	8.8	
1968	1,161.7	295.4	304.3	1.2	288.6	272.2	1,048.1	210.4	288.9	1.1	284.8	262.9	113.6	85.0	15.4	0.1	3.8	9.3	
1969	1,142.2	285	278.3	1.1	317.3	260.5	1,023.8	198.3	264.6	1.0	309.6	250.3	118.4	87.7	13.7	0.1	7.7	10.2	
1970	1,243.4	269.9	299.3	1.3	383.5	289.4	1,115.5	202.6	281.6	1.1	359.6	270.4	127.9	87.3	17.5	0.2	23.9	19.0	
1971	1,093.6	289.3	239.0	1.0	323.1	241.2	933.3	206.3	213.8	0.9	287.4	224.9	160.3	83.0	25.2	0.1	35.7	16.3	
1972	1,428.3	419.5	286.0	1.0	478.7	243.1	1,191.1	290.1	267.9	0.9	407.2	225.0	237.2	129.4	18.1	0.1	71.5	18.1	
1973	1,965.9	548.4	517.0	1.2	569.1	330.2	1,752.7	388.5	488.3	1.0	564.4	310.5	213.2	159.9	28.7	0.2	4.7	19.7	
1974	1,765.4	522.3	347.4	1.1	573.9	320.7	1,566.5	382.2	311.3	1.0	570.5	301.5	198.9	140.1	36.1	0.1	3.4	19.2	
1975	1,618.1	549.4	244.9	1.3	516.8	305.7	1,405.4	397.5	218.7	1.1	515.3	272.8	212.7	151.9	26.2	0.2	1.5	32.9	
1976	1,846.0	619.7	354.5	1.4	478.0	392.4	1,605.5	437.9	316.3	1.3	475.1	374.9	240.5	181.8	38.2	0.1	2.9	17.5	
1977	1,665.6	537.4	336.6	1.5	439.6	350.5	1,427.7	386.5	288.6	1.4	436.7	335.5	237.9	171.9	48.0	0.1	2.9	15.0	
1978	1,740.9	648.4	347.4	1.3	411.3	332.5	1,533.9	374.4	257.6	1.3	407.6	313.0	387.0	274.0	89.8	0.0	3.7	19.5	
1979	2,142.4	651.5	456.1	2.0	647.6	429.3	1,781.3	427.6	345.6	1.9	640.5	365.7	361.1	223.9	110.5	0.1	7.1	19.5	
1980	2,494.0	631.3	594.7	3.6	648.9	628.3	2,006.5	388.3	429.2	3.2	633.9	551.9	487.5	243.0	165.5	0.4	15.0	63.6	
1981	2,406.3	729.1	398.3	4.0	524.3	723.3	1,927.8	509.1	234.4	3.6	506.5	674.2	478.5	220.0	163.9	0.4	17.8	76.4	
1982	2,020.8	418.9	410.6	3.1	627.9	589.8	1,634.9	281.9	248.2	2.9	610.7	511.2	385.9	162.4	0.2	17.2	49.1		
1983	2,269.9	664.1	458.8	2.3	631.6	562.3	1,755.6	433.2	290.6	2.0	595.3	434.5	514.3	230.9	168.2	0.3	36.3	78.6	
1984	2,150.4	555.7	345.0	2.7	602.4	615.2	1,623.6	347.7	212.0	2.1	545.0	516.8	526.8	208.0	133.0	0.6	57.4	127.8	
1985	1,792.8	431.3	277.0	5.3	617.6	509.7	1,420.1	300.7	177.3	4.7	574.2	363.2	372.7	130.6	99.7	0.6	43.4	98.4	
1986	2,387.7	510.1	395.3	10.6	888.3	617.7	1,888.4	361.6	253.3	10.0	827.0	436.9	499.3	142.0	146.5	0.6	61.3	146.5	
1987	3,172.8	648	528.1	9.0	1,200.5	855.4	2,447.0	445.8	309.5	8.1	1,077.2	606.4	725.8	202.2	218.6	0.9	123.3	180.8	
1988	4,390.7	753.7	891.0	5.0	1,552.4	1,165.7	3,227.5	493.9	490.5	3.5	1,280.0	959.6	1,163.2	259.8	400.5	1.5	252.4	249.0	
1989	4,164.9	642.7	673.1	7.7	1,614.2	1,199.1	3,339.6	457.1	397.0	6.7	1,457.8	1,021.0	825.3	185.6	276.1	1.0	156.4	206.1	
1990	4,565.6	657.6	685.8	6.7	1,270.3	1,984.0	3,752.9	422.7	412.0	10.2	1,045.1	1,767.1	812.8	234.9	273.8	0.7	125.2	178.1	
1991	3,880.4	564.8	753.7	10.7	1,215.7	1,335.2	2,999.5	365.4	429.2	10.2	1,086.1	1,086.8	880.9	199.4	324.5	0.5	128.6	226.9	
1992	3,498.1	571.7	735.1	9.3	1,112.9	1,083.5	2,667.3	3,267.3	399.2	8.3	1,003.6	842.5	930.8	258.0	335.9	1.0	109.3	226.6	
1993	3,255.2	566.0	548.1	4.7	1,180.5	980.9	2,291.5	2,291.5	267.0	3.7	1,063.2	714.8	963.7	299.0	305.3	1.0	117.4	241.0	
1994	3,081.6	610.7	534.8	7.2	1,056.6	897.0	2,078.0	285.5	230.5	6.4	958.4	597.2	1,021.0	313.3	313.3	0.8	98.2	266.1	
1995	2,929.4	650.3	513.4	5.9	978.2	810.0	1,872.1	312.5	201.5	4.7	871.6	481.8	1,057.3	337.8	311.9	1.2	106.6	299.8	
1996	2,878.5	664.3	485.3	7.2	961.3	779.8	1,788.7	312.3	178.2	5.3	860.7	432.2	806.9	198.8	352.0	1.9	100.6	328.2	
1997	2,933.4	713.3	592.3	15.9	796.6	815.3	964.5	970.4	329.3	2.3	692.2	467.7	1,224.0	384.0	386.1	1.9	104.4	347.6	
1998	2,189.4	576.3	560.8	15.3	385.4	560.8	1,219.2	681.5	230.6	10.8	297.5	383.3	1,060.2	353.8	353.8	4.5	57.9	298.2	
1999	2,548.6	659.3	555.8	11.1	1,363.2	969.1	1,365.4	255.4	214.2	7.3	288.7	600.9	1,182.1	404.0	341.6	3.9	64.5	368.1	
2000	2,700.0	700.7	506.5	12.7	325.4	1,154.7	1,400.0	265.2	151.8	10.6	274.8	697.6	1,300.0	435.6	354.7	2.1	50.6	457.1	
2001	2,190.3	571.3	391.3	5.1	226.6	966.0	968.8	186.4	86.3	2.4	180.2	513.4	1,221.5	384.9	304.9	2.7	46.4	482.6	
2002	2,185.7	585.0	357.7	4.1	154.8	1,084.1	966.4	174.4	73.2	2.3	115.2	601.3	1,219.3	410.6	284.5	1.8	39.6	482.7	
2003	2,117.6	633.4	347.8	2.9	149.0	984.5	957.0	201.5	76.0	1.4	111.5	566.6	1,160.6	431.9	271.8	1.5	37.5	417.9	
2004	2,097.7	629.3	339.6	7.4	119.3	1,002.2	821.0	189.9	53.9	2.1	82.5	492.6	1,276.7	439.4	285.7	5.2	36.8	509.6	
2005	2,191.1	649.0	345.7	10.0	79.5	1,106.8	897.0	226.8	65.8	5.6	49.2	549.7	1,294.1	422.3	280.0	4.4	30.3	557.1	
2006	2,359.3	624.5	384.3	8.6	81.8	1,260.1	930.0	234.7	77.7	3.1	49.7	564.8	1,429.3	389.8	306.6	5.5	32.1	695.3	
2007	2,193.0	599.3	356.4	10.6	84.9	1,141.8	993.0	245.9	82.4	6.9	65.4	592.5	1,200.0	353.7	274.1	3.7	19.4	549.3	
2008	2,147.6	570.8	231.8	18.8	114.7	1,211.5	1,203.0	275.6	40.0	16.5	100.4	770.4	944.6	295.2	191.8	2.3	14.3	441.0	
2009	1,784.0	455.4	174.6	24.4	127.5	1,002.1	983.0	255.8	24.9	22.2	113.9	566.2	801.0	199.6	149.7	2.2	13.6	435.8	
2010	2,425.0	620.8	209.2	21.8	1,344.6	1,347.0	1,378.1	30.8	30.8	19.7	160.0	757.3	1,078.0	421.66	178.4	2.0	18.6	637.3	
2011	2,855.6	572.6	196.4	9.3	195.5	1,881.7	1,667.0	333.6	29.1	6.8	173.5	1,124.1	1,188.6	239.06	167.3	2.5	22.1	757.7	
2012	2,900.4	633.5	278.3	18.3	1,888.6	1,893.6	1,582.0	377.0	19.7	14.7	162.0	1,008.6	1,318.4	256.52	146.4	3.7	26.8	885.0	
2013	3,250.4	636.2	164.0	17.9	206.9	1,614.2	1,788.0	383.0	20.6	14.4	179.1	1,191.0	1,462.4	253.21	143.4	3.5	27.8	1,034.4	
2014	3,387.1	599.5	195.9	18.1	161.7	2,411.9	1,734.0	334.0	32.8	13.2	126.8	1,227.2	1,663.1	265.48	163.0	4.8	35.0	1,184.7	
2015	3,056.2	533.1	173.9	23.7	153.4	2,172.1	1,563.0	310.5	29.2	17.7	124.9	1,080.8	1,493.2	222.68	144.7	6.0	28.5	1,091.4	
2016	3,260.9	552.9	188.8	25.4	129.6	2,354.1	1,602.0	332.0	40.2	17.6	102.9	1,109.3	1,658.9	220.94	148.6	7.9	26.6	1,254.8	
2017	3,584.6	549.4	172.5	27.1	121.5	2,714.1	1,700.0	317.0	28.5	20.6	93.8	1,240.1	1,884.6	232.39	144.0	6.5	27.7	1,474.0	

<sup>a</sup>U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44); data may not add to totals because of rounding.<sup>b</sup>Includes Belgium-Luxembourg, Denmark, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Spain, Trieste, and the United Kingdom.

Revised

Table 33—Lumber<sup>a</sup> production in Canada, by softwoods and hardwoods and region, 1965–2017 (billion board feet)<sup>b</sup>

Year	All species	Total	Softwoods			Other Canada	Hardwoods			
			British Columbia <sup>c</sup>				Other	British Columbia	Other Canada	
			Total	Coast	Interior					
1965	10.8	10.3	7.4	3.6	3.8	2.9	0.5	<sup>z</sup>	0.5	
1966	10.6	10.0	7.3	3.7	3.6	2.7	0.6	<sup>z</sup>	0.6	
1967	10.3	9.7	7.1	3.9	3.2	2.6	0.6	<sup>z</sup>	0.6	
1968	11.4	10.8	7.8	4.1	3.7	3.0	0.6	<sup>z</sup>	0.6	
1969	11.5	11.0	7.7	3.8	3.9	3.3	0.5	<sup>d</sup>	0.5	
1970	11.3	10.8	7.7	3.8	3.9	3.1	0.5	<sup>d</sup>	0.5	
1971	12.8	12.3	9.0	4.2	4.8	3.3	0.5	<sup>d</sup>	0.5	
1972	13.9	13.4	9.5	4.0	5.5	3.9	0.5	<sup>d</sup>	0.5	
1973	15.5	14.9	10.4	4.4	6.0	4.5	0.6	<sup>d</sup>	0.6	
1974	13.6	13.0	8.7	3.4	5.3	4.3	0.6	<sup>d</sup>	0.6	
1975	11.5	11.1	7.4	2.5	4.9	3.7	0.4	<sup>d</sup>	0.4	
1976	15.6	15.1	10.6	4.0	6.6	4.5	0.5	<sup>d</sup>	0.5	
1977	17.6	17.2	12.0	4.5	7.5	5.2	0.4	<sup>d</sup>	0.4	
1978	19.0	18.4	12.5	4.8	7.7	5.9	0.6	<sup>d</sup>	0.6	
1979	19.8	19.3	12.9	4.7	8.2	6.4	0.5	<sup>d</sup>	0.5	
1980	19.0	18.4	11.9	4.2	7.7	6.5	0.6	<sup>d</sup>	0.6	
1981	17.0	16.6	10.4	3.5	6.9	6.2	0.4	<sup>d</sup>	0.4	
1982	15.6	15.2	9.9	3.0	6.9	5.3	0.4	<sup>d</sup>	0.4	
1983	20.5	20.1	13.0	4.1	8.9	7.1	0.4	<sup>d</sup>	0.4	
1984	20.7	20.2	13.1	3.9	9.2	7.1	0.5	<sup>d</sup>	0.5	
1985	22.0	21.6	13.6	3.6	10.0	8.0	0.4	<sup>d</sup>	0.4	
1986	22.4	21.9	13.1	3.7	9.4	8.8	0.5	<sup>d</sup>	0.5	
1987	26.2	25.6	15.9	4.7	11.2	9.7	0.6	<sup>d</sup>	0.6	
1988	25.7	25.1	15.6	4.6	11.0	9.5	0.6	<sup>d</sup>	0.6	
1989	25.0	24.5	15.2	4.1	11.1	9.3	0.5	<sup>d</sup>	0.5	
1990	23.1	22.7	14.2	3.8	10.4	8.5	0.4	<sup>d</sup>	0.4	
1991	21.9	21.5	13.3	3.5	9.8	8.2	0.4	<sup>d</sup>	0.4	
1992	23.6	23.1	14.1	3.5	10.6	9.0	0.5	<sup>d</sup>	0.5	
1993	25.3	24.8	14.4	3.6	10.8	10.4	0.5	<sup>d</sup>	0.5	
1994	26.1	25.6	14.3	3.7	10.6	11.3	0.5	<sup>d</sup>	0.5	
1995	26.0	25.5	13.8	3.5	10.4	11.7	0.5	<sup>d</sup>	0.5	
1996	27.0	26.6	13.8	3.5	10.4	12.7	0.4	<sup>d</sup>	0.4	
1997	27.4	27.1	13.4	3.3	10.0	13.7	0.4	<sup>d</sup>	0.4	
1998	27.5	27.2	12.8	2.7	10.1	14.4	0.4	<sup>d</sup>	0.4	
1999	29.5	29.2	13.5	2.8	10.7	15.7	0.4	<sup>d</sup>	0.4	
2000	29.8	29.4	13.6	2.9	10.8	15.8	0.4	<sup>d</sup>	0.4	
2001	28.2	27.8	12.8	2.2	10.5	15.0	0.4	<sup>d</sup>	0.4	
2002	30.9	29.5	13.7	2.2	11.5	15.8	1.4	<sup>d</sup>	1.4	
2003	29.8	29.4	13.7	2.2	11.6	15.7	0.4	<sup>d</sup>	0.4	
2004	30.3	29.9	13.9	2.2	11.8	16.0	0.4	<sup>d</sup>	0.4	
2005	26.3	25.9	13.1	<sup>z</sup>	<sup>z</sup>	12.8	0.4	<sup>d</sup>	0.4	
2006	34.0	33.6	17.4	<sup>z</sup>	<sup>z</sup>	16.2	0.4	<sup>d</sup>	0.4	
2007	30.3	29.9	15.5	<sup>z</sup>	<sup>z</sup>	14.4	0.4	<sup>d</sup>	0.4	
2008	24.1	23.7	11.9	<sup>z</sup>	<sup>z</sup>	11.7	0.4	<sup>d</sup>	0.4	
2009	19.2	18.8	9.7	<sup>z</sup>	<sup>z</sup>	9.1	0.4	<sup>d</sup>	0.4	
2010	22.6	22.2	11.5	<sup>z</sup>	<sup>z</sup>	10.7	0.4	<sup>d</sup>	0.4	
2011	22.8	22.4	12.3	<sup>z</sup>	<sup>z</sup>	10.1	0.4	<sup>d</sup>	0.4	
2012	23.6	23.2	12.3	<sup>z</sup>	<sup>z</sup>	10.9	0.4	<sup>d</sup>	0.4	
2013	24.8	24.4	12.7	<sup>z</sup>	<sup>z</sup>	11.7	0.4	<sup>d</sup>	0.4	
2014	25.3	24.6	12.6	<sup>z</sup>	<sup>z</sup>	12.0	0.6	<sup>d</sup>	0.4	
2015	27.4	26.7	13.2	<sup>z</sup>	<sup>z</sup>	13.5	0.7	<sup>d</sup>	0.4	
2016	29.0	28.3	13.6	<sup>z</sup>	<sup>z</sup>	14.8	0.7	<sup>d</sup>	0.4	
2017	28.9	28.3	12.9	<sup>z</sup>	<sup>z</sup>	15.4	0.6	<sup>d</sup>	0.4	

<sup>a</sup>Does not include sawn ties.<sup>b</sup>Natural Resources Canada (30); Statistics Canada (36,37,38); Wood Markets (90); Bilateral Trade-Canada; Western Wood Products Association (88).

Data may not add to totals because of rounding.

<sup>c</sup>Includes small volumes of hardwoods.<sup>d</sup>Fewer than 50 million board feet.<sup>z</sup>Not Available.

**Table 34—Lumber and competing engineered wood products production, by type of product, 1970–2017**

Year	Wood laminated veneer lumber <sup>a</sup>	Wood glulam <sup>a</sup>	Wood I-joists <sup>a</sup>	Structural panels <sup>a</sup>		Lumber <sup>b</sup>	
				Oriented strandboard	Softwood plywood	Hardwood	Softwood
	Million cubic feet	Million board feet	Million linear feet	Million square feet (3/8-in. basis)	Million square feet (3/8-in. basis)	Billion board feet	Billion board feet
1970	z	z	z	z	14,340	8.3	27.5
1971	z	z	z	z	16,635	8.4	30.0
1972	z	z	z	z	18,324	8.5	31.0
1973	z	z	z	z	18,305	8.8	31.6
1974	z	z	z	z	15,878	8.4	27.7
1975	z	z	z	z	16,050	7.3	26.7
1976	z	z	z	z	18,440	8.0	29.7
1977	z	z	z	z	19,376	8.5	31.7
1978	z	z	z	z	19,964	9.0	32.1
1979	z	z	z	z	19,653	9.3	31.4
1980	3	204	45	135	16,333	9.2	26.2
1981	4	190	45	271	16,752	7.5	24.7
1982	4	164	54	557	15,846	8.0	23.8
1983	5	192	63	1,341	19,480	8.8	29.7
1984	5	229	72	2,042	19,926	10.1	31.2
1985	7	246	90	2,669	20,169	9.6	31.3
1986	8	330	99	3,513	22,118	10.5	35.3
1987	9	279	108	4,076	22,899	11.3	38.2
1988	11	298	108	4,604	22,599	11.7	38.1
1989	12	322	117	5,105	21,385	12.1	37.5
1990	16	324	122	5,418	20,919	12.3	35.8
1991	16	265	158	5,613	18,652	11.2	33.2
1992	17	258	252	6,653	19,332	11.4	34.5
1993	21	239	358	7,002	19,315	12.2	32.9
1994	23	264	380	7,486	19,638	12.4	34.1
1995	28	282	358	7,903	19,367	12.6	32.2
1996	32	309	444	9,314	19,181	12.5	33.3
1997	38	300	547	10,534	17,963	12.7	34.7
1998	41	287	619	11,227	17,776	12.7	34.7
1999	48	316	733	11,612	17,816	12.9	36.6
2000	48	356	693	11,906	17,475	12.6	36.0
2001	53	335	746	12,532	15,121	11.8	34.6
2002	56	321	756	13,426	15,200	11.8	35.8
2003	68	344	1,075	13,615	14,706	10.5	36.6
2004	86	402	1,282	14,271	14,665	11.1	39.1
2005	91	491	1,263	14,985	14,330	11.2	39.8
2006	80	461	804	14,960	13,428	11.0	38.7
2007	68	358	656	14,763	12,243	10.6	35.2
2008	47	256	424	13,003	10,237	6.8	29.2
2009	30	167	257	9,598	8,608	7.0	23.2
2010	37	176	299	10,299	9,131	5.7	24.8
2011	38	184	293	10,039	8,980	6.6	26.8
2012	46	204	359	11,038	9,181	6.5	28.3
2013	54	230	422	12,492	9,346	7.3	30.0
2014	60	233	457	13,008	8,985	8.3	31.5
2015	61	252	465	13,283	8,751	8.3	32.0
2016	65	257	482	13,922	8,809	8.3	32.5
2017	73	271	518	14,609	9,026	8.3	33.9

<sup>a</sup>APA – The Engineered Wood Association (11,12).<sup>b</sup>U.S. Department of Commerce, Bureau of the Census (62); American Forest and Paper Association (4);

Western Wood Products Association (89); Luppold and Dempsey (26). Hardwood Market Report (19): 2008–present.

<sup>z</sup>Data not available.

**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2017  
(2009 = 100)<sup>a</sup>**

Year	All commodities	Lumber and wood products		All lumber		All		Softwood lumber		Southern pine*		All hardwood lumber	
		Actual	Relative <sup>b</sup>	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	18.7	33.7	18.4	30.2	20.2	28.9	20.4	15.7	84.1	17.1	91.6	37.1	21.7
1966	19.3	35.2	19.3	32.2	21.6	30.4	21.5	16.5	85.5	18.8	97.6	41.4	24.2
1967	19.3	35.1	19.2	32.2	21.6	31.1	22.0	17.0	88.1	18.8	97.3	38.1	22.3
1968	19.8	39.8	21.8	37.8	25.3	37.5	26.5	20.5	103.4	21.4	108.1	39.8	23.2
1969	20.6	44.0	24.1	42.3	28.3	41.8	29.6	22.5	109.1	23.7	115.1	45.8	26.8
1970	21.3	39.9	21.8	36.6	24.5	35.2	24.9	18.5	86.5	21.5	100.9	43.7	25.5
1971	22.0	44.7	24.5	43.8	29.3	44.0	31.1	23.8	108.2	25.2	114.3	43.2	25.2
1972	23.0	50.7	27.7	51.3	34.3	52.1	36.8	27.4	119.2	28.5	123.7	48.1	28.1
1973	26.0	62.2	34.0	66.0	44.2	66.6	47.1	35.6	136.9	35.3	135.5	64.4	37.6
1974	30.9	64.5	35.3	66.6	44.6	65.7	46.5	36.4	117.6	34.6	112.0	72.2	42.2
1975	33.8	62.1	34.0	61.9	41.4	62.4	44.1	36.0	106.6	33.0	97.6	61.1	35.7
1976	35.3	72.2	39.5	75.0	50.2	77.1	54.5	42.7	120.8	40.8	115.5	67.1	39.2
1977	37.5	83.0	45.4	89.0	59.6	92.5	65.4	49.6	132.1	49.3	131.3	76.3	44.6
1978	40.4	96.9	53.0	103.7	69.4	107.6	76.1	57.8	142.9	57.2	141.5	89.9	52.5
1979	45.5	105.5	57.7	114.0	76.3	118.1	83.5	65.3	143.4	60.9	133.9	99.1	57.9
1980	51.9	101.5	55.5	104.9	70.2	107.3	75.9	60.1	115.7	55.9	107.6	96.0	56.1
1981	56.7	102.8	56.2	104.6	70.0	106.6	75.4	53.0	93.6	54.8	96.8	97.3	56.8
1982	57.8	100.0	54.7	100.0	66.9	100.0	70.7	45.3	78.3	53.7	92.9	100.0	58.4
1983	58.6	107.9	59.0	113.5	76.0	115.0	81.3	61.5	105.0	60.1	102.6	108.1	63.1
1984	60.0	108.0	59.1	112.5	75.3	110.0	77.8	55.8	93.0	60.1	100.2	121.8	71.1
1985	59.7	106.6	58.3	109.6	73.4	107.4	76.0	57.3	96.0	56.5	94.7	117.1	68.4
1986	58.0	107.2	58.6	110.5	74.0	108.4	76.7	56.4	97.3	56.4	97.3	118.2	69.0
1987	59.5	112.8	61.7	118.2	79.1	116.1	82.1	56.6	95.3	61.3	103.1	126.8	74.1
1988	61.8	118.9	65.0	122.1	81.7	120.0	84.9	61.5	99.4	60.4	97.7	131.0	76.5
1989	64.9	126.7	69.3	125.7	84.1	127.1	89.9	68.7	105.8	58.1	89.5	128.2	74.9
1990	67.3	129.7	71.0	124.6	83.4	123.8	87.6	62.7	93.2	59.8	88.8	131.0	76.5
1991	67.4	132.1	72.3	124.9	83.6	125.7	88.9	63.2	93.8	59.7	68.6	128.5	75.1
1992	67.8	146.6	80.2	144.7	96.9	148.6	105.1	76.6	113.1	70.1	103.5	140.7	82.2
1993	68.8	174.0	95.2	183.4	122.8	193.0	136.5	107.6	156.5	90.7	131.9	163.3	95.4
1994	69.6	180.0	98.5	188.4	126.1	198.1	140.1	107.1	153.7	98.0	140.8	168.3	98.3
1995	72.1	178.1	97.4	173.4	116.1	178.5	126.2	90.0	124.9	89.7	124.4	167.0	97.5
1996	73.9	176.1	96.3	179.8	120.3	189.5	134.0	103.8	140.6	95.4	129.2	163.9	95.7
1997	73.8	183.8	100.5	194.5	130.2	206.5	146.0	100.0	135.5	100.0	135.5	174.1	101.7
1998	71.9	179.1	98.0	179.5	120.1	182.7	129.2	84.2	117.1	95.1	132.1	178.7	104.4
1999	72.6	183.6	100.4	188.2	126.0	196.0	138.6	96.1	132.3	99.8	137.5	177.3	103.6
2000	76.8	178.2	97.5	178.8	119.7	178.6	126.3	83.9	109.3	86.5	112.7	185.9	108.6
2001	77.6	174.4	95.4	171.6	114.9	170.1	120.3	80.7	103.9	82.0	105.6	181.3	105.9
2002	75.8	173.3	94.8	170.6	114.2	170.8	120.8	80.8	106.6	78.0	102.9	178.3	104.1
2003	79.9	177.4	97.0	174.3	116.7	170.8	120.8	80.0	100.2	78.1	97.8	188.8	110.3
2004	84.8	195.6	107.0	203.6	136.3	209.8	148.4	-	-	-	-	199.3	116.4
2005	91.0	196.5	107.5	198.6	132.9	203.6	144.0	-	-	-	-	196.6	114.8
2006	95.3	194.4	106.3	188.6	126.2	189.4	133.9	-	-	-	-	195.3	114.1
2007	100.0	192.4	105.3	174.7	116.9	170.5	120.6	-	-	-	-	192.4	112.4
2008	109.7	191.3	104.6	163.5	109.4	156.3	110.5	-	-	-	-	184.5	107.8
2009	100.0	182.8	100.0	149.4	100.0	141.4	100.0	-	-	-	-	171.2	100.0
2010	106.8	192.7	105.4	167.3	112.0	160.8	113.7	-	-	-	-	187.3	109.4
2011	116.3	194.7	106.5	166.6	111.5	160.5	113.5	-	-	-	-	185.8	108.5
2012	116.9	201.6	110.3	172.5	115.5	171.7	121.4	-	-	-	-	183.7	107.3
2013	117.6	214.9	117.6	198.7	133.0	199.8	141.3	-	-	-	-	208.4	121.7
2014	118.75	224.2	122.6	214.9	143.8	205.6	145.4	-	-	-	-	241.9	141.3
2015	110.1	221.9	121.4	199.3	133.4	192.7	136.3	-	-	-	-	221.1	129.1
2016	107.2	222.7	121.8	201.8	135.1	198.8	140.6	-	-	-	-	218.1	127.4
2017	111.9	230.2	125.9	217.2	145.4	223.6	158.1	-	-	-	-	219.8	128.4

\*Discontinued series.

**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2017  
(2009 = 100)<sup>a</sup>—con.**

Year	Metals and metal products		Metal doors, sash, and trim		Flat glass		Concrete products		Ready mixed concrete	
	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	13.1	70.0	9.8	52.7	<sup>z</sup>	<sup>z</sup>	11.3	60.7	10.9	58.3
1966	13.4	69.6	10.1	52.3	<sup>z</sup>	<sup>z</sup>	11.5	59.7	11.0	57.3
1967	13.6	70.2	10.3	53.4	35.7	185.0	11.8	61.0	11.3	58.4
1968	13.9	70.2	10.7	54.3	37.2	188.2	12.1	61.2	11.6	58.6
1969	14.7	71.4	11.2	54.4	39.1	190.0	12.6	61.0	12.1	58.8
1970	15.8	74.1	11.7	54.7	41.3	193.3	13.2	62.0	12.8	60.0
1971	16.1	73.1	12.2	55.1	44.0	199.5	14.2	64.5	13.8	62.8
1972	16.7	72.6	12.5	54.1	43.7	189.9	14.8	64.3	14.4	62.6
1973	18.0	69.1	12.9	49.5	43.3	166.4	15.5	59.6	15.0	57.8
1974	23.3	75.3	15.2	49.2	46.0	148.7	17.9	57.7	17.3	55.9
1975	25.1	74.4	16.8	49.7	49.6	147.0	20.1	59.5	19.4	57.4
1976	26.6	75.2	17.7	50.1	53.5	151.4	21.2	60.1	20.8	58.8
1977	28.3	75.4	19.5	51.9	57.4	152.9	22.6	60.2	22.2	59.1
1978	30.8	76.1	21.5	53.1	61.7	152.5	25.2	62.4	24.7	61.1
1979	35.1	77.2	23.7	52.1	65.6	144.1	28.8	63.2	28.1	61.8
1980	38.8	74.7	26.3	50.7	70.1	135.0	32.3	62.1	31.7	61.1
1981	40.7	71.8	28.8	50.8	75.9	133.9	34.3	60.5	33.8	59.7
1982	40.9	70.7	30.0	51.9	79.1	136.7	35.1	60.7	34.5	59.6
1983	41.6	71.0	30.8	52.6	82.0	139.9	35.6	60.7	34.9	59.6
1984	42.8	71.4	32.0	53.3	80.2	133.6	36.5	60.8	36.0	60.0
1985	42.7	71.5	32.2	53.9	80.4	134.7	37.7	63.2	36.9	61.9
1986	42.2	72.8	32.7	56.4	82.6	142.5	38.3	66.1	37.2	64.1
1987	43.8	73.6	33.6	56.5	84.7	142.5	38.4	64.5	37.0	62.3
1988	48.5	78.5	36.7	59.4	86.7	140.3	38.6	62.4	37.2	60.2
1989	50.7	78.1	39.0	60.1	86.7	133.6	39.0	60.1	37.7	58.1
1990	50.2	74.7	39.4	58.6	85.0	126.3	39.8	59.2	38.6	57.4
1991	49.1	72.9	40.4	59.9	83.7	124.2	40.9	60.7	39.6	58.7
1992	48.7	71.9	40.5	59.7	84.3	124.3	41.1	60.7	39.7	58.6
1993	48.7	70.8	41.0	59.6	84.8	123.3	42.2	61.3	41.0	59.6
1994	51.0	73.2	42.6	61.2	87.3	125.3	43.7	62.7	42.7	61.3
1995	55.0	76.2	47.0	65.1	89.5	124.1	45.4	62.9	44.5	61.7
1996	53.5	72.5	47.8	64.7	87.0	117.7	46.7	63.3	45.9	62.2
1997	53.9	73.0	48.3	65.5	85.6	116.0	47.7	64.6	46.8	63.4
1998	52.2	72.6	48.5	67.4	84.7	117.8	49.1	68.3	48.2	67.0
1999	66.7	91.9	77.5	106.8	92.5	127.5	67.1	92.5	65.7	90.6
2000	68.6	89.3	78.9	102.8	95.4	124.3	69.1	90.0	67.5	88.0
2001	67.1	86.5	79.9	102.9	97.4	125.5	70.9	91.3	69.0	88.9
2002	67.4	88.9	80.3	105.9	96.7	127.5	71.4	94.1	69.0	90.9
2003	69.2	86.6	81.2	101.7	96.5	120.8	71.8	89.9	69.2	86.7
2004	80.1	94.4	84.0	99.0	94.4	111.3	75.3	88.8	72.9	85.9
2005	86.1	94.6	88.4	97.1	96.5	106.0	82.8	91.0	81.6	89.6
2006	97.2	102.0	92.2	96.7	98.7	103.5	91.2	95.6	91.2	95.7
2007	103.6	103.6	94.3	94.3	99.3	99.3	95.1	95.1	95.1	95.1
2008	114.0	104.0	98.3	89.6	100.8	91.9	98.4	89.7	97.6	89.0
2009	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	111.1	104.0	99.5	93.1	96.7	90.5	98.4	92.1	97.6	91.4
2011	120.9	104.0	104.7	90.0	98.1	84.4	98.5	84.7	97.0	83.4
2012	117.7	100.7	108.0	92.4	99.7	85.2	100.5	85.9	99.2	84.9
2013	114.3	97.1	108.2	91.9	102.6	87.2	103.3	87.8	102.2	86.9
2014	115.6	97.4	109.0	91.8	104.9	88.3	107.6	90.6	106.9	90.0
2015	107.2	97.3	111.7	101.4	109.0	98.9	111.9	101.6	111.9	101.6
2016	104.0	97.0	112.5	104.9	114.5	106.8	115.4	107.7	116.0	108.2
2017	111.2	99.4	116.2	103.8	115.7	103.3	118.8	106.1	119.7	107.0

**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2017  
(2009 = 100)<sup>a</sup>—con.**

Year	Prepared asphalt roofing <sup>d</sup>				Gypsum products		Soft surface floor covering		Hard surface floor covering	
	Ceramic tile <sup>c</sup>		Actual		Actual	Relative	Actual	Relative	Actual	Relative
1965	29.6	158.4	12.9	69.1	12.0	64.2	33.2	177.6	13.6	72.9
1966	30.0	155.6	13.5	70.2	11.8	61.3	33.0	171.5	13.5	70.2
1967	30.6	158.4	13.2	68.3	11.9	61.5	31.5	163.0	13.4	69.5
1968	31.5	159.2	13.7	69.3	12.3	62.2	31.7	160.2	13.8	69.7
1969	32.5	157.9	13.7	66.3	12.3	59.7	31.7	153.9	13.4	65.2
1970	33.4	156.5	13.4	62.9	11.8	55.4	31.1	145.9	13.5	63.1
1971	34.9	158.5	16.7	75.7	13.0	58.9	30.4	138.1	14.0	63.3
1972	35.0	152.2	17.6	76.6	13.6	59.1	30.2	131.3	14.0	60.9
1973	36.4	140.0	18.3	70.2	14.3	55.1	31.8	122.1	14.1	54.3
1974	39.8	128.6	25.1	81.1	16.3	52.7	34.9	112.7	16.9	54.5
1975	44.5	131.7	28.8	85.2	17.1	50.5	36.0	106.7	19.9	59.0
1976	47.8	135.2	30.5	86.4	18.3	51.8	37.1	104.9	21.9	62.0
1977	48.6	129.5	32.5	86.7	21.8	58.0	38.4	102.3	23.1	61.5
1978	48.4	119.6	38.1	94.2	27.2	67.2	39.7	98.3	24.2	59.9
1979	52.4	115.1	41.6	91.4	29.9	65.7	40.9	89.8	26.7	58.7
1980	55.4	106.8	49.2	94.7	30.4	58.5	44.5	85.8	30.6	59.0
1981	60.2	106.2	47.4	83.6	30.4	53.6	49.5	87.2	32.2	56.9
1982	63.4	109.6	46.6	80.6	30.4	52.5	50.1	86.5	32.8	56.8
1983	65.8	112.3	43.9	74.9	33.9	57.9	51.2	87.3	33.8	57.6
1984	68.3	113.8	45.5	75.9	41.1	68.6	52.7	87.9	34.8	58.0
1985	71.8	120.3	46.9	78.5	40.2	67.3	52.2	87.5	36.3	60.8
1986	75.4	130.1	45.1	77.9	41.6	71.8	53.6	92.4	37.2	64.3
1987	78.0	131.2	42.8	72.1	38.0	64.0	54.7	92.0	38.1	64.1
1988	80.6	130.4	44.0	71.2	34.3	55.5	56.5	91.4	40.2	65.1
1989	82.5	127.1	44.6	68.7	33.4	51.5	57.8	89.1	42.7	65.7
1990	84.0	124.8	44.7	66.4	32.0	47.5	58.6	87.1	43.7	64.9
1991	83.1	123.3	44.8	66.6	30.2	44.8	58.9	87.4	45.7	67.8
1992	84.0	124.0	44.0	64.9	30.5	44.9	58.6	86.5	46.6	68.8
1993	84.6	123.0	44.2	64.3	32.9	47.8	58.4	84.9	47.7	69.3
1994	85.9	123.4	43.3	62.2	41.3	59.3	59.0	84.7	48.4	69.5
1995	87.5	121.3	45.6	63.2	46.9	65.1	60.0	83.1	50.3	69.8
1996	87.6	118.7	45.4	61.5	46.8	63.3	61.2	82.8	50.5	68.4
1997	87.7	118.8	45.0	61.0	51.9	70.3	61.8	83.7	50.7	68.7
1998	117.7	163.6	43.9	61.0	83.1	115.5	75.8	105.4	77.7	108.0
1999	118.2	162.9	43.6	60.1	97.3	134.0	74.9	103.2	77.2	106.4
2000	115.2	150.2	45.9	59.7	94.2	122.7	76.5	99.7	77.6	101.1
2001	106.7	137.4	47.4	61.0	73.2	94.2	77.2	99.5	76.5	98.6
2002	93.1	122.8	48.9	64.5	79.0	104.2	77.4	102.0	77.2	101.8
2003	93.1	116.5	50.7	63.5	80.2	100.4	79.4	99.4	78.8	98.7
2004	93.5	110.2	51.0	60.1	93.0	109.6	81.3	95.9	80.6	94.9
2005	95.9	105.3	57.3	63.0	107.4	118.0	87.5	96.1	85.4	93.8
2006	98.0	102.8	62.8	65.9	128.6	134.9	92.7	97.3	88.5	92.8
2007	97.9	97.9	64.1	64.1	109.0	109.0	93.8	93.8	90.8	90.8
2008	101.0	92.1	81.0	73.9	99.7	90.9	95.7	87.3	97.2	88.7
2009	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	100.2	93.8	100.4	94.0	96.6	90.5	100.9	94.4	102.6	96.1
2011	99.8	85.8	103.6	89.1	94.4	81.2	104.6	90.0	109.3	94.0
2012	99.2	84.9	101.4	86.7	107.7	92.1	106.9	91.4	115.1	98.4
2013	102.8	87.4	105.3	89.5	125.7	106.8	107.5	91.3	115.1	97.8
2014	102.4	86.2	102.9	86.7	135.9	114.5	110.1	92.7	115.1	96.9
2015	105.7	96.0	102.3	92.9	137.1	124.5	110.9	100.7	115.1	104.5
2016	108.4	101.1	101.6	94.8	139.0	129.6	110.8	103.3	116.6	108.7
2017	104.9	93.7	101.1	90.4	151.0	134.9	110.9	99.1	117.6	105.0

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).<sup>b</sup>Derived by dividing the actual price index by the all commodities price index.<sup>c</sup>Ceramic floor and wall tile.<sup>d</sup>Prepared asphalt and tar roofing and siding products.<sup>z</sup>Not available.

**Table 36—Relative<sup>a</sup> producer price index for lumber, 1800–2017 (2009 = 100)<sup>b</sup>**

Year	All lumber										
1800	5.0	1840	12.6	1881	20.7	1922	40.3	1963	75.1	2004	136.3
1801	5.2	1841	13.0	1882	21.1	1923	43.7	1964	76.7	2005	132.9
1802	6.2	1842	12.9	1883	20.9	1924	39.8	1965	20.2	2006	126.2
1803	5.3	1843	12.6	1884	22.4	1925	38.3	1966	21.6	2007	116.9
1804	5.3	1844	13.3	1885	22.9	1926	38.2	1967	21.6	2008	109.4
1805	5.4	1845	14.7	1886	23.7	1927	37.4	1968	25.3	2009	100.0
1806	5.5	1846	13.9	1887	23.7	1928	35.4	1969	28.3	2010	112.0
1807	5.9	1847	13.4	1888	23.1	1929	37.5	1970	24.5	2011	111.5
1808	5.8	1848	13.9	1889	23.1	1930	37.5	1971	29.3	2012	115.5
1809	5.4	1849	14.1	1890	23.6	1931	36.0	1972	34.3	2013	133.0
1810	5.1	1850	14.8	1891	23.2	1932	34.8	1973	44.2	2014	143.8
1811	5.1	1851	14.3	1892	24.1	1933	40.5	1974	44.6	2015	133.4
1812	4.8	1852	15.7	1893	23.8	1934	42.7	1975	41.4	2016	135.1
1813	4.3	1853	15.2	1894	26.3	1935	38.7	1976	50.2	2017	145.4
1814	3.6	1854	14.8	1895	24.6	1936	40.8	1977	59.6		
1815	6.4	1855	15.6	1896	25.9	1937	44.1	1978	69.4		
1816	7.1	1856	16.0	1897	25.1	1938	42.6	1979	76.3		
1817	6.2	1857	16.5	1898	25.4	1939	45.7	1980	70.2		
1818	5.8	1858	16.4	1899	26.0	1940	49.8	1981	70.0		
1819	6.7	1859	16.0	1900	26.8	1941	53.2	1982	66.9		
1820	7.5	1860	16.0	1901	27.3	1942	51.0	1983	76.0		
1821	7.5	1861	15.6	1902	26.7	1943	51.9	1984	75.3		
1822	7.1	1862	14.2	1903	28.4	1944	56.2	1985	73.4		
1823	7.5	1863	13.6	1904	26.5	1945	55.7	1986	74.0		
1824	7.6	1864	13.6	1905	28.1	1946	56.1	1987	79.1		
1825	7.9	1865	12.6	1906	33.2	1947	72.8	1988	81.7		
1826	8.5	1866	15.9	1907	31.7	1948	76.3	1989	84.1		
1827	8.6	1867	16.9	1908	30.4	1949	73.7	1990	83.4		
1828	9.0	1868	17.4	1909	28.3	1950	82.8	1991	83.6		
1829	8.9	1869	17.0	1910	26.8	1951	80.5	1992	96.9		
1830	8.8	1870	17.4	1911	28.8	1952	80.5	1993	122.8		
1831	8.8	1871	18.4	1912	29.1	1953	80.8	1994	126.1		
1832	8.7	1872	18.7	1913	30.4	1954	79.1	1995	116.1		
1833	9.1	1873	19.0	1914	28.8	1955	84.1	1996	120.3		
1834	10.0	1874	18.8	1915	27.6	1956	83.1	1997	130.2		
1835	8.8	1875	18.0	1916	25.3	1957	75.9	1998	120.1		
1836	8.0	1876	18.4	1917	24.1	1958	73.8	1999	126.0		
1837	11.5	1877	18.6	1918	25.0	1959	79.3	2000	119.7		
1838	12.0	1878	18.6	1919	32.0	1960	75.7	2001	114.9		
1839	11.4	1879	19.9	1920	42.0	1961	72.0	2002	114.2		
1840	12.6	1880	19.4	1921	35.9	1962	73.1	2003	116.7		

<sup>a</sup>Derived by dividing the actual price index by the all commodities price index.<sup>b</sup>1800 to 1914, Cornell University Agricultural Experiment Station (17);

1915 to present, U.S. Department of Labor, Bureau of Labor Statistics (79);

1800–1964 (1992 = 100), 1965–present (2009 = 100).

Table 37—Plywood production, imports, exports, and consumption, by softwoods and hardwoods, 1965–2017 (3/8-in. basis)<sup>a</sup>

Year	Production			Imports			Exports			Consumption			Per capita consumption		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods									
	Million square feet	Square feet	Square feet	Square feet											
1965	14,496	12,447	2,049	1,052	5	1,047	36	30	6	15,512	12,422	3,090	80	64	16
1966	15,132	13,056	2,076	1,257	3	1,254	56	48	8	16,333	13,011	3,322	83	66	17
1967	14,874	12,958	1,916	1,247	3	1,244	93	85	8	16,028	12,876	3,152	81	65	16
1968	16,704	14,695	2,009	1,896	10	1,886	78	64	14	18,522	14,641	3,881	92	73	19
1969	15,563	13,694	1,869	2,122	15	2,107	215	199	16	17,470	13,510	3,960	86	67	20
1970	16,136	14,340	1,796	2,049	2	2,047	172	114	58	18,013	14,228	3,785	88	69	18
1971	18,559	16,635	1,924	2,545	3	2,542	114	99	15	20,990	16,539	4,451	101	80	21
1972	20,354	18,324	2,030	3,162	6	3,156	247	221	26	23,269	18,109	5,160	111	86	25
1973	20,112	18,305	1,807	2,536	9	2,527	451	411	40	22,197	17,903	4,294	105	84	20
1974	17,279	15,878	1,401	1,648	4	1,644	610	542	68	18,317	15,340	2,977	86	72	14
1975	17,102	16,050	1,052	1,925	7	1,918	859	791	68	18,168	15,266	2,902	84	71	13
1976	19,523	18,440	1,083	2,368	12	2,356	795	716	79	21,096	17,736	3,360	97	81	15
1977	20,563	19,376	1,187	2,272	18	2,254	357	287	70	22,478	19,107	3,371	102	87	15
1978	21,149	19,964	1,185	2,555	63	2,492	329	298	31	23,375	19,729	3,646	105	89	16
1979	20,803	19,653	1,150	2,097	27	2,070	431	402	29	22,469	19,278	3,191	100	86	14
1980	17,371	16,333	1,038	1,235	37	1,198	413	373	40	18,193	15,997	2,196	80	70	10
1981	17,728	16,752	976	1,512	30	1,482	733	686	47	18,507	16,096	2,411	80	70	10
1982	17,231	15,846	1,385	1,878	9	1,869	493	452	41	18,616	15,403	3,213	80	66	14
1983	20,960	19,480	1,480	2,747	18	2,729	615	574	41	23,092	18,924	4,168	99	81	18
1984	21,431	19,926	1,505	2,527	48	2,480	408	371	37	23,550	19,603	3,948	100	83	17
1985	21,511	20,169	1,342	3,112	54	3,058	365	321	44	24,259	19,903	4,356	102	83	18
1986	23,508	22,118	1,390	3,234	63	3,171	676	614	61	26,067	21,567	4,500	108	90	19
1987	24,423	22,899	1,524	3,932	129	3,803	855	796	60	27,500	22,232	5,268	113	92	22
1988	24,151	22,599	1,552	3,358	96	3,262	1,108	1,004	104	26,401	21,691	4,711	108	89	19
1989	22,926	21,385	1,541	1,983	49	1,935	1,562	1,442	119	23,348	19,991	3,356	94	81	14
1990	22,456	20,919	1,537	1,687	38	1,649	1,766	1,613	153	22,377	19,344	3,033	90	77	12
1991	20,148	18,652	1,496	1,457	28	1,429	1,553	1,322	231	20,052	17,358	2,695	79	69	11
1992	20,755	19,332	1,423	1,776	47	1,729	1,760	1,442	318	20,771	17,937	2,834	81	70	11
1993	20,826	19,315	1,511	1,786	41	1,745	1,677	1,409	268	20,935	17,946	2,989	81	70	12
1994	21,439	19,638	1,801	1,693	47	1,646	1,455	1,211	244	21,677	18,474	3,203	83	71	12
1995	21,209	19,367	1,842	1,951	60	1,892	1,517	1,267	250	21,643	18,160	3,483	82	69	13
1996	20,965	19,181	1,784	1,780	85	1,695	1,499	1,248	251	21,246	18,018	3,228	80	68	12
1997	19,835	17,963	1,872	2,111	104	2,007	1,802	1,548	254	20,143	16,519	3,625	75	62	14
1998	19,738	17,776	1,962	2,429	179	2,250	969	764	205	21,198	17,191	4,007	78	64	15
1999	19,832	17,816	2,016	2,827	309	2,518	984	781	203	21,675	17,344	4,331	79	63	16
2000	19,741	17,475	2,266	2,902	408	2,494	916	735	181	21,727	17,148	4,579	77	61	16
2001	17,225	15,121	2,104	3,220	665	2,555	676	514	162	19,768	15,272	4,496	69	54	16
2002	17,296	15,200	2,096	4,115	907	3,208	619	439	180	20,792	15,668	5,124	72	55	18
2003	16,753	14,706	2,047	4,489	1,306	3,183	640	410	230	20,603	15,602	5,001	71	54	17
2004	16,687	14,665	2,022	6,629	2,023	4,606	783	492	291	22,532	16,196	6,336	77	55	22
2005	16,327	14,330	1,997	6,964	2,421	4,543	686	411	275	22,604	16,340	6,264	76	55	21
2006	15,238	13,428	1,810	6,361	1,848	4,513	635	424	211	20,964	14,852	6,112	72	51	21
2007	14,013	12,243	1,770	4,972	1,087	3,885	732	553	179	18,253	12,777	5,476	61	42	18
2008	11,936	10,237	1,699	3,462	759	2,703	824	621	203	14,573	10,375	4,198	48	34	14
2009	10,192	8,608	1,584	2,751	616	2,135	619	473	146	12,325	8,751	3,574	40	28	12
2010	10,632	9,131	1,501	3,046	439	2,607	1,004	795	209	12,674	8,775	3,899	41	28	13
2011	10,530	8,980	1,550	3,148	478	2,670	949	740	209	12,730	8,718	4,012	41	28	13
2012	10,783	9,181	1,602	3,339	426	2,913	1,039	840	199	13,083	8,767	4,316	42	28	14
2013	10,982	9,346	1,636	3,873	567	3,306	990	784	206	13,865	9,129	4,736	41	29	13
2014	10,587	8,985	1,602	3,955	635	3,320	832	689	143	13,710	8,931	4,779	43	28	15
2015	10,446	8,751	1,695	4,609	942	3,667	710	564	146	14,345	9,129	5,216	45	28	16
2016	10,619	8,809	1,810	4,926	1,383	3,543	774	613	161	14,771	9,579	5,192	46	30	16
2017	10,836	9,026	1,810	5,314	1,976	3,338	859	656	203	15,292	10,346	4,946	47	32	15

<sup>a</sup>U.S. Department of Agriculture, Foreign Service (44); American Plywood Association, The Engineered Wood Association (12,13);

U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>Includes mixed species (not classified as hardwoods or softwoods).

**Table 38—Production, imports, exports, and consumption of structural panel products, by type, 1980–2017  
(million square feet, 3/8-in. basis)<sup>a</sup>**

Year	Production			Imports			Exports			Consumption		
	Softwood plywood		Oriented strandboard	Total	Softwood plywood		Oriented strandboard	Total	Softwood plywood		Oriented strandboard	Total
	Total	Softwood plywood	Oriented strandboard	Total	Softwood plywood	Oriented strandboard	Total	Softwood plywood	Oriented strandboard	Total	Softwood plywood	Oriented strandboard
1980	16,468	16,333	135	360	37	323	373	373	z	16,455	15,997	458
1981	17,023	16,752	271	349	30	319	686	686	z	16,686	16,096	590
1982	16,403	15,846	557	268	9	259	452	452	z	16,219	15,403	816
1983	20,821	19,480	1,341	423	18	405	574	574	z	20,670	18,924	1,746
1984	21,968	19,926	2,042	727	48	679	371	371	z	22,324	19,603	2,721
1985	22,838	20,169	2,669	848	54	794	321	321	z	23,366	19,903	3,463
1986	25,631	22,118	3,513	723	63	660	614	614	z	25,740	21,567	4,173
1987	26,975	22,899	4,076	889	129	760	796	796	z	27,068	22,232	4,836
1988	27,203	22,599	4,604	911	96	815	1,004	1,004	z	27,110	21,691	5,419
1989	26,490	21,385	5,105	1,160	49	1,111	1,442	1,442	z	26,207	19,991	6,216
1990	26,337	20,919	5,418	1,351	38	1,313	1,613	1,613	z	26,075	19,344	6,731
1991	24,265	18,652	5,613	1,016	28	988	1,379	1,322	57	23,901	17,358	6,544
1992	25,985	19,332	6,653	1,619	47	1,572	1,491	1,491	49	26,113	17,937	8,176
1993	26,317	19,315	7,002	2,203	41	2,163	1,470	1,470	60	27,051	17,946	9,105
1994	27,124	19,638	7,486	2,635	47	2,588	1,289	1,289	78	28,469	18,474	9,995
1995	27,270	19,367	7,903	3,274	60	3,214	1,348	1,348	82	29,196	18,160	11,036
1996	28,495	19,181	9,314	4,500	85	4,414	1,405	1,405	157	31,590	18,018	13,572
1997	28,497	17,963	10,534	5,376	104	5,272	1,715	1,715	167	32,158	16,519	15,639
1998	29,003	17,776	11,227	6,671	179	6,492	864	864	100	34,810	17,191	17,619
1999	29,428	17,816	11,612	7,659	309	7,350	960	960	179	36,127	17,344	18,783
2000	29,381	17,475	11,906	8,030	408	7,622	914	914	735	36,498	17,148	19,350
2001	27,653	15,121	12,532	8,755	665	8,090	681	681	154	35,727	15,272	20,455
2002	28,626	15,200	13,426	9,368	907	8,461	634	634	195	37,360	15,668	21,692
2003	28,321	14,706	13,615	10,386	1,306	9,080	567	567	410	38,140	15,602	22,538
2004	28,936	14,665	14,271	11,870	2,023	9,847	685	685	492	39,771	14,852	21,328
2005	29,315	14,330	14,985	12,965	2,421	10,544	580	580	411	40,120	16,196	23,924
2006	28,388	13,428	14,960	11,986	1,848	10,138	603	603	424	41,700	16,340	25,360
2007	27,006	12,243	14,763	7,916	1,087	6,829	817	817	553	41,700	16,340	25,360
2008	23,240	10,237	13,003	4,425	759	3,666	1,071	1,071	621	450	21,622	8,775
2009	18,206	8,608	9,598	3,372	616	2,756	653	653	473	180	20,915	8,741
2010	19,430	9,131	10,299	3,266	439	2,827	1,074	1,074	795	279	21,622	8,775
2011	19,019	8,980	10,039	3,406	478	2,928	1,079	1,079	740	339	21,346	8,718
2012	20,219	9,181	11,038	3,804	426	3,378	1,147	1,147	840	307	22,876	8,767
2013	21,838	9,346	12,492	4,501	567	3,934	1,102	1,102	784	318	25,237	9,129
2014	21,993	8,985	13,008	5,134	635	4,499	1,012	1,012	689	323	26,115	8,931
2015	22,034	8,751	13,283	6,033	942	5,091	818	818	564	254	27,249	9,129
2016	22,731	8,809	13,922	7,125	1,383	5,742	859	859	613	246	28,997	9,579
2017	23,635	9,026	14,609	8,361	1,976	6,385	845	845	656	189	31,151	10,346

<sup>a</sup>APA – The Engineered Wood Association (11,12,13); U.S. International Trade Commission (86,87). Data may not add to totals because of rounding.

<sup>z</sup>Not available.

Table 39—Hardwood plywood imports, by country or region of origin, 1965–2017 (million square feet, surface measured<sup>a</sup>)

Year <sup>b</sup>	Latin America										Europe													
	Total	Canada	Total	Mexico	West Indies	Brazil	America	Other <sup>c</sup>	South	Total	Japan	Philippines	China <sup>d</sup>	Taiwan	Korea	Indonesia	Other	Russia	Total	Federation	Other	Africa	Others	
1965	2,032.8	64.5	10.8	1	1	10.8	1,832.4	788.0	307.8	368.2	z	336.7	z	51.7	118.3	z	6.8	z	z	6.6	0.3	z		
1966	2,533.7	64.1	8.7	2	2	8.7	2,328.9	783.4	397.9	528.8	z	573.6	z	46.2	145.1	z	z	6.6	0.3	z	6.6	0.3	z	
1967	2,532.7	48.0	8.1	1	1	1.0	1.1	3,619.1	921.3	602.2	z	471.5	485.4	z	702.0	z	64.8	118.2	z	2.4	1	1	1	
1968	3,841.3	53.0	12.2	2	1.0	1.0	1.1	3,619.1	921.3	602.2	z	1,167.2	z	98.8	166.0	z	z	1.0	1.8	1	1	1	1	
1969	4,280.2	40.6	11.7	0.1	4.0	2	7.6	4,043.8	802.3	572.1	936.0	z	1,589.8	z	143.6	192.3	z	z	1.8	1	1	1	1	1
1970	4,168.1	24.9	10.2	1	1.9	2	8.3	3,986.3	623.5	570.9	939.6	z	1,787.3	z	75.0	136.1	z	z	0.5	0.1	0.1	0.1	0.1	0.1
1971	5,176.7	45.8	13.8	z	1.3	z	12.5	4,988.7	598.3	592.2	1,395.5	z	2,255.3	0.1	152.3	277.3	z	z	1.7	1.1	1	1	1	1
1972	6,427.5	69.5	20.5	z	8.7	z	11.8	6,216.0	519.1	644.2	2,021.9	z	2,865.6	z	165.2	121.3	z	z	0.1	0.1	0.1	0.1	0.1	0.1
1973	5,146.7	74.4	18.0	z	4.5	z	13.5	4,958.6	341.0	695.3	1,387.2	z	2,443.0	z	113.1	94.0	z	z	0.5	0.2	0.2	0.2	0.2	0.2
1974	3,349.1	46.8	18.8	z	1.0	z	17.8	3,229.0	244.3	279.3	937.2	z	1,694.7	z	73.5	48.2	z	z	z	z	6.3	6.3	6.3	6.3
1975	3,906.4	50.4	15.8	z	7.5	z	8.3	3,805.1	240.5	240.5	1,011.8	z	2,290.0	z	38.7	30.8	z	z	z	z	4.3	4.3	4.3	4.3
1976	4,797.8	53.6	18.3	z	6.8	z	11.5	4,668.7	312.5	352.9	1,189.4	z	2,785.7	z	28.2	47.6	z	z	0.5	0.1	0.1	0.1	0.1	0.1
1977	4,590.7	69.3	24.8	z	5.1	z	19.7	4,445.3	336.1	231.0	1,149.1	z	2,676.9	z	32.2	44.2	z	z	z	z	7.1	7.1	7.1	7.1
1978	5,076.0	75.3	29.6	0.1	5.9	z	23.6	4,922.2	245.6	472.8	z	2,483.0	z	14.8	48.1	z	z	0.7	0.1	0.1	0.1	0.1	0.1	
1979	4,216.3	82.2	53.7	z	2.4	z	51.3	4,039.6	192.7	367.3	1,523.1	z	1,836.7	95.5	24.3	40.8	z	z	z	z	0.5	0.2	0.2	0.2
1980	2,440.5	72.8	46.1	z	3.7	z	42.4	2,290.5	150.4	246.7	889.8	z	902.1	120.8	z	10.7	30.6	z	z	1	0.5	0.5	0.5	
1981	3,017.5	64.7	30.4	z	4.4	z	26.0	2,884.4	139.8	436.7	1,080.9	z	943.7	271.7	z	11.6	37.9	z	z	0.1	0.1	0.1	0.1	
1982	2,249.4	54.5	24.3	z	2.5	z	21.8	2,146.4	95.8	161.3	860.6	z	559.6	473.9	z	5.2	24.1	z	z	0.1	0.1	0.1	0.1	
1983	3,346.6	57.5	44.1	0.3	1.3	z	42.5	3,205.6	119.9	182.4	1,124.6	z	414.8	1,352.2	z	11.7	39.4	z	z	z	z	7.1	7.1	7.1
1984	2,982.3	73.4	90.0	0.1	1.4	z	88.5	2,767.9	109.7	94.9	904.8	z	78.1	1,568.8	z	11.6	50.9	z	z	0.1	0.1	0.1	0.1	
1985	3,522.1	69.4	75.1	0.1	2.9	z	72	1,294.6	106.7	212.6	783.5	z	28.2	214.2	z	19.6	82.3	z	z	0.4	0.3	0.3	0.3	
1986	3,809.2	55.8	120.8	0.2	1.8	z	118.8	3,556.4	74.0	110.9	723.5	z	61.8	2,551.1	z	35.1	71.5	z	z	4.7	4.7	4.7	4.7	
1987	3,950.2	87.4	105.9	0.2	0.9	z	104.8	3,670.7	41.6	126.1	665.6	z	48.7	2,721.4	z	67.3	85.1	z	z	0.5	0.6	0.6	0.6	
1988	3,292.3	81.7	118.5	1	0.5	z	118.7	3,022.0	19.8	51.8	523.8	z	6.7	2,345.4	z	74.5	39.6	z	z	0.5	0.5	0.5	0.5	
1989	3,938.9	29.1	232.1	0.6	2.2	186.9	42.3	3,271.4	11.5	59.5	0.4	770.2	9.5	2,341.4	40.3	38.5	158.7	0.0	0.2	27.5	27.5	27.5	27.5	
1990	3,356.4	211.1	306.3	0.0	4.2	248.9	53.3	2,700.6	3.9	35.7	0.4	255.9	7.9	2,209.4	159.1	28.3	90.6	0.0	90.6	0.0	47.9	47.9	47.9	
1991	2,910.3	215.8	297.2	0.1	1.3	237.6	58.2	2,268.6	3.2	16.5	1.4	141.9	0.6	1,798.0	289.0	18.0	82.0	0.0	82.0	0.0	46.7	46.7	46.7	
1992	3,520.5	268.4	455.6	1.8	1.4	397.6	54.7	2,706.1	1.8	23.2	2.1	109.5	0.0	1,786.2	326.8	5.0	422.3	306.8	115.6	0.3	0.2	0.2		
1993	3,553.3	310.0	686.5	0.2	3.8	594.8	87.8	2,430.9	0.6	8.6	14.5	90.5	0.4	1,858.5	443.7	14.2	122.8	60.0	62.8	0.6	2.5	2.5	2.5	
1994	3,351.3	372.9	847.1	5.7	8.2	687.2	146.0	1,922.3	1.5	0.8	20.4	45.9	0.1	1,456.4	379.1	18.1	205.6	141.9	63.6	0.9	2.4	2.4	2.4	
1995	3,851.4	422.6	832.6	10.1	8.7	554.0	251.2	2,282.7	0.2	12.4	29.3	0.0	276.4	39.0	1.368.2	762.4	38.7	98.6	183.8	38.6	25.9	25.9	25.9	
1996	3,451.0	394.9	826.7	21.0	9.8	496.5	299.4	1,931.6	1.2	0.4	14.3	38.4	0.0	1,575.1	300.4	17	351.6	330.3	21.3	0.2	1.6	1.6		
1997	4,086.1	606.1	856.4	16.4	6.2	569.1	264.7	2,200.7	2.0	0.0	47.3	33.4	0.0	1,786.2	326.8	5.0	422.3	306.8	115.6	0.3	0.2	0.2		
1998	4,581.7	654.6	490.1	7.2	6.2	271.3	205.4	2,948.5	1.2	0.0	104.1	36.7	0.0	1,207.4	723.3	7.8	480.8	388.1	92.8	2.0	5.6	5.6		
1999	5,126.8	713.9	720.4	16.3	2.4	463.3	238.5	3,010.1	0.8	0.0	149.3	45.2	0.0	1,389.3	962.7	11.5	637.8	585.3	102.5	3.8	40.8	40.8		
2000	5,078.0	819.6	874.4	18.0	2.5	602.7	251.2	3,258.8	2.2	0.0	162.0	49.2	0.1	1,510.6	813.0	21.8	784.6	688.4	116.2	28.7	11.9	11.9		
2001	5,201.6	813.6	858.9	18.4	3.1	642.3	195.1	2,486.0	0.2	0.0	276.4	39.0	0.0	1,368.2	762.4	38.7	98.6	183.8	38.6	25.9	25.9	25.9		
2002	6,531.5	840.5	1011.5	19.1	6.3	789.1	191.9	3,382.0	0.5	0.0	662.1	53.6	0.0	1,049.9	353.3	17	351.6	330.3	21.3	0.2	1.6	1.6		
2003	6,480.9	796.4	1181.5	17.1	3.7	941.9	218.7	3,382.3	0.9	0.0	1,017.3	49.3	0.0	1,241.7	972.4	86.6	1079.0	883.1	185.9	35.9	5.9	5.9		
2004	9,377.2	825.3	1305.1	10.9	3.6	1,055.8	234.8	5,781.0	3.2	0.0	2,954.1	80.5	0.0	1,177.8	143.3	10.0	1425.8	1188.8	237.0	27.4	12.5	12.5		
2005	9,249.0	799.5	799.0	1.2	10.9	596.9	190.0	6,176.0	0.9	0.0	1,881.3	67.3	0.0	984.2	1137.0	9.6	1259.8	986.1	273.8	18.3	26.4	26.4		
2006	9,187.9	644.0	595.5	1.2	8.9	397.8	187.7	6,902.6	0.5	1.8	4,675.9	86.2	0.0	2,225.5	878.7	117.9	1033.0	832.6	200.4	7.0	5.8	5.8		
2007	7,910.5	549.3	3.7	26.0	275.9	6,033.1	0.1	6.8	4,279.8	0.2	0.0	4,279.6	130.0	1.0	649.7	934.8	30.3	816.4	556.3	260.0	30.3	16.7		
2008	5,502.8	324.9	64.9	0.2	137.5	180.3	4,172.8	0.1	5.5	3,177.8	63.0	0.0	483.6	422.7	19.1	624.7	438.2	186.5	15.1	12.9	12.9			
2009	4,347.1	250.8	404.8	0.1	3.1	144.6	248.5	0.2	1.2	2,465.5	51.7	0.0	431.7	213.0	21.7	500.6	401.6	99.3	3.1	2.2	2.2			
2010	5,308.0	241.6	233.0	0.2	2.7	38.0	192.0	4,146.3	0.0	2.5	3,140.8	110.0	0.1	593.0	373.1	25.7	661.4	504.5	157.0	2.9	22.8	22.8		
2011	5,436.7	207.3	175.5	1.2	0.9	36.5	136.9	4,283.2	0.3	2.8	3,588.4	19.9	0.0	441.7	204.1	16.0	755.6	588.3	217.3	1.7	13.4	13.4		
2012	5,930.0	210.3	316.0	0.8	3.9	33.1	278.3	4,729.8	0.2	4.8	3,888.6	44.7	0.3	531.2	228.8	31.2	654.3	544.2	110.1	2.7	16.8	16.8		
2013	6,731.0	419.5	838.1	5.9	23.1	68.7	70.4</																	

Table 40—Veneer imports and exports, by species, 1965–2017 (million square feet, surface measured)<sup>a</sup>

Year	Imports					Exports					
	Hardwoods					Hardwoods					
	Total	Birch and maple	Other	Soft-woods		Total	Total	Walnut	Red and white oak	Other	
1965	1,958.2	1,871.2	817.4	1,053.8	87.0	169.8	143.7	80.6	b	63.1	26.1
1966	2,043.0	1,843.7	766.4	1,077.3	199.3	153.9	110.5	54.2	b	56.3	43.4
1967	1,990.9	1,796.7	754.9	1,041.8	194.2	192.8	105.8	44.8	b	61.0	87.0
1968	2,340.1	2,178.7	820.8	1,357.9	161.4	306.3	173.6	71.9	b	101.7	132.7
1969	2,054.6	1,855.7	698.2	1,157.5	198.9	360.6	194.2	92.4	b	101.8	166.4
1970	1,876.6	1,605.8	650.0	955.8	270.8	327.1	183.8	111.3	b	72.5	143.3
1971	2,302.1	2,035.2	812.0	1,223.2	266.9	571.5	172.7	97.7	b	75.0	398.8
1972	3,151.4	2,786.0	997.9	1,788.1	365.4	491.7	204.3	84.9	b	119.4	287.4
1973	2,967.7	2,582.9	890.5	1,692.4	384.8	660.5	346.0	90.9	b	255.1	314.5
1974	2,281.6	1,965.9	679.6	1,286.3	315.7	599.4	380.8	77.4	b	303.4	218.6
1975	1,497.7	1,145.6	552.2	593.4	352.1	736.8	390.3	63.6	b	326.7	346.5
1976	1,993.5	1,595.6	760.3	835.3	397.9	768.2	505.8	91.8	b	414.0	262.4
1977	2,261.0	1,718.5	721.3	997.2	542.5	687.0	516.5	93.1	b	423.4	170.5
1978	2,143.3	1,632.5	722.8	909.7	510.8	1,541.6	1,353.3	128.9	476.1	748.3	188.3
1979	2,076.6	1,560.1	713.4	846.7	516.5	1,072.5	886.0	80.6	522.0	283.4	186.5
1980	1,666.8	1,213.2	584.2	629.0	453.6	1,333.1	1,077.3	117.8	631.2	328.3	255.8
1981	1,729.3	1,406.3	605.1	801.2	323.0	1,378.1	919.6	107.9	509.2	302.5	458.5
1982	1,665.9	1,231.9	506.8	725.1	434.0	1,140.3	803.6	78.6	512.9	212.1	336.7
1983	2,072.5	1,607.2	637.8	969.4	465.3	1,438.8	1,023.8	106.0	624.4	293.4	415.0
1984	1,886.8	1,502.9	537.2	965.7	383.9	1,370.5	1,002.7	84.4	636.0	282.3	367.8
1985	1,753.4	1,398.0	501.5	896.5	355.4	1,100.2	792.6	85.6	481.5	225.5	307.6
1986	1,997.4	1,603.9	557.3	1,046.6	393.5	1,466.1	995.8	72.6	639.3	283.9	470.3
1987	2,106.6	1,682.2	563.4	1,118.8	424.4	1,775.9	1,384.7	90.7	857.4	436.6	391.2
1988	2,226.7	1,713.8	588.0	1,125.8	512.9	1,830.1	1,574.2	69.9	1,058.7	445.6	255.9
1989	1,163.9	719.7	239.9	479.8	444.1	1,712.2	1,599.6	35.8	431.0	1,132.7	112.6
1990	2,109.3	1,600.7	559.2	1,041.5	508.6	1,820.2	1,681.4	103.4	1,135.5	442.5	138.9
1991	1,917.4	1,383.7	523.5	860.2	533.7	1,896.1	1,725.5	85.9	1,084.3	555.4	170.6
1992	2,422.3	1,674.4	599.1	1,075.3	747.9	2,072.2	1,884.8	69.7	1,094.0	721.2	187.4
1993	2,870.0	1,904.1	619.2	1,284.9	965.9	2,209.9	1,977.4	60.7	958.1	958.6	232.5
1994	3,036.6	1,946.6	713.0	1,233.7	1,090.0	2,459.3	2,310.0	68.4	1,086.1	1,155.5	149.3
1995	3,223.2	2,283.2	739.4	1,543.8	940.0	2,800.0	2,613.3	73.6	1,109.9	1,429.8	186.7
1996	3,011.4	2,093.4	718.2	1,375.1	918.0	2,792.7	2,613.3	49.1	1,080.1	1,484.1	179.4
1997	2,926.9	1,994.9	767.9	1,227.0	932.0	3,068.6	2,875.4	60.2	1,070.3	1,744.8	193.2
1998	3,435.1	2,210.7	789.2	1,421.6	1,224.3	2,946.1	2,722.2	58.6	1,041.5	1,622.0	223.9
1999	3,933.3	2,350.6	947.9	1,402.7	1,582.7	3,293.3	2,986.8	78.6	1,008.7	1,899.4	306.5
2000	4,339.0	2,479.8	1,085.4	1,394.4	1,859.1	3,527.8	3,200.2	83.7	1,022.0	2,094.5	327.6
2001	4,263.7	2,166.5	897.0	1,269.5	2,097.2	3,372.2	3,148.8	102.6	936.9	2,109.3	223.4
2002	4,714.0	2,328.7	954.4	1,374.3	2,385.3	3,720.7	3,460.4	92.8	836.8	2,530.9	260.3
2003	4,487.5	2,073.1	712.9	1,360.2	2,414.4	3,681.4	3,283.3	74.9	763.7	2,444.7	398.1
2004	5,491.5	2,310.4	706.6	1,603.8	3,181.1	4,280.4	3,707.5	104.2	880.7	2,722.6	572.9
2005	5,751.8	2,239.4	827.1	1,412.3	3,512.4	4,130.2	3,540.0	115.5	764.0	2,660.5	590.3
2006	5,057.3	1,911.2	596.3	1,314.9	3,146.2	4,098.1	3,424.5	139.0	763.9	2,521.7	673.6
2007	3,906.7	2,154.2	519.6	1,634.6	1,752.4	3,718.1	3,242.4	198.6	749.0	2,294.8	475.7
2008	2,821.3	1,539.8	442.1	1,097.7	1,281.5	3,013.9	2,706.2	159.6	623.0	1,923.5	307.7
2009	1,982.8	933.3	392.4	541.0	1,049.5	2,085.9	1,819.5	132.6	563.7	1,123.2	266.4
2010	2,109.1	960.8	392.4	568.5	1,148.2	2,380.2	2,104.7	181.0	540.5	1,383.2	275.5
2011	2,209.6	799.2	327.7	471.4	1,410.4	2,219.4	2,047.2	275.2	486.8	1,285.3	172.2
2012	2,558.4	899.6	260.8	638.8	1,658.8	2,302.1	2,062.7	303.2	515.9	1,243.6	239.4
2013	2,588.1	838.5	298.1	540.5	1,749.6	2,335.1	2,087.2	350.1	473.6	1,263.5	247.9
2014	2,677.7	875.2	311.1	564.0	1,802.5	2,321.4	2,163.2	384.7	583.5	1,194.9	158.2
2015	3,131.2	934.1	319.2	614.8	2,197.2	2,281.4	2,124.9	349.4	794.7	980.8	156.5
2016	2,732.2	859.0	330.7	528.3	1,873.2	2,258.0	2,096.7	329.3	807.1	960.4	161.3
2017	3,089.5	895.3	390.9	504.4	2,194.1	2,201.5	1,959.8	277.7	743.3	938.8	241.7

<sup>a</sup>American Forest and Paper Association (4); U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agriculture Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>Red and white oak are included in Other for 1965 to 1977.

Table 41—Hardwood veneer imports, by country or region of origin, 1965–2017 (million square feet, surface measured)<sup>a</sup>

Year	Latin America						Asia						
	Central America and			South America			Total	Japan	Philippines	Other			
	Total	Canada	Mexico	West Indies	South America	Other				Asia	Africa	Europe	Other <sup>b</sup>
1965	1,871.2	852.0	67.1	0.1	19.2	47.8	687.0	4.8	527.0	155.2	219.8	44.3	0.9
1966	1,843.7	792.8	96.4	0.3	21.2	74.9	714.1	3.8	522.7	187.6	209.7	29.6	1.0
1967	1,796.7	775.8	140.9	0.1	8.0	132.8	580.9	3.8	451.8	125.3	271.2	27.7	0.2
1968	2,178.7	837.7	200.5	1.5	16.8	182.2	837.7	4.3	609.8	223.6	276.5	26.3	0.1
1969	1,855.7	713.9	152.7	0.6	13.1	139.0	838.6	5.3	671.4	161.9	128.1	22.2	0.3
1970	1,605.8	672.4	191.0	0.6	5.0	185.4	569.1	3.3	460.0	105.8	147.0	26.1	0.2
1971	2,035.2	842.4	216.1	0.5	15.1	200.5	809.4	4.5	590.9	214.0	143.1	24.0	0.2
1972	2,786.0	1,051.8	303.8	— <sup>c</sup>	28.8	275.0	1226.5	0.9	822.5	403.1	153.9	30.2	19.7
1973	2,582.9	944.4	288.4	— <sup>c</sup>	43.2	245.2	1126.1	2.3	850.8	273.0	167.2	27.8	29.0
1974	1,965.9	709.2	243.8	— <sup>z</sup>	43.9	199.9	874.0	0.9	660.8	212.3	78.6	39.4	20.8
1975	1,145.6	570.7	132.5	— <sup>z</sup>	22.2	110.3	331.5	3.8	294.3	33.4	74.3	23.1	13.5
1976	1,595.6	804.6	210.8	— <sup>z</sup>	8.3	202.5	520.6	4.5	452.4	63.7	15.0	30.1	14.5
1977	1,718.5	801.4	159.1	0.9	13.0	145.2	689.3	5.5	580.5	103.3	19.6	30.5	18.7
1978	1,632.5	817.4	213.1	3.6	21.8	187.7	536.8	7.1	442.6	87.1	19.1	44.7	1.5
1979	1,560.1	834.0	149.4	2.0	28.2	119.2	482.5	1.3	448.2	33.0	35.4	56.4	2.4
1980	1,213.2	700.4	156.0	— <sup>z</sup>	27.3	130.7	301.6	2.0	261.5	38.1	21.9	31.4	1.5
1981	1,406.3	753.6	165.0	0.2	27.3	137.5	398.2	0.9	330.7	66.6	36.3	41.6	11.4
1982	1,231.9	705.9	161.2	0.8	24.4	136.0	149.9	0.7	120.0	29.2	19.2	193.2	2.6
1983	1,607.2	908.3	192.2	3.0	23.1	166.1	366.0	2.8	318.3	44.9	27.1	100.9	12.8
1984	1,502.9	828.1	227.5	0.8	31.6	195.1	287.2	8.5	180.7	98.0	13.7	127.6	19.0
1985	1,398.0	728.7	233.1	0.2	26.5	206.4	240.5	6.5	110.7	123.3	26.1	150.8	18.8
1986	1,603.9	831.8	233.9	0.2	20.8	212.9	310.4	5.1	112.7	192.6	57.4	139.0	31.3
1987	1,682.2	910.8	245.0	— <sup>z</sup>	18.0	227.0	331.3	6.3	122.8	202.2	40.9	127.0	27.2
1988	1,713.8	944.3	312.8	0.8	33.2	278.8	279.5	2.0	182.4	95.1	41.6	92.8	42.8
1989	719.7	366.9	143.1	0.0	6.4	136.7	116.4	2.5	72.5	41.4	23.9	53.9	15.6
1990	1,600.7	904.2	320.6	0.0	28.4	292.2	221.2	5.8	111.6	103.8	31.8	93.6	29.4
1991	1,383.7	832.1	254.4	0.0	25.5	228.9	167.3	4.8	73.3	89.1	26.7	75.0	28.2
1992	1,674.4	997.9	364.5	1.0	109.0	254.5	182.9	2.9	64.2	115.8	21.8	80.9	26.4
1993	1,904.1	1,158.4	452.8	2.9	7.8	442.0	120.5	2.5	11.6	106.3	39.2	95.7	37.5
1994	1,946.6	1,220.8	414.5	1.4	6.5	406.5	71.7	3.0	5.7	63.1	41.5	151.5	46.6
1995	2,283.2	1,186.4	575.4	9.1	14.8	551.5	213.0	3.5	47.9	161.6	114.4	137.8	56.1
1996	2,093.4	1,190.2	508.8	13.6	6.1	489.1	58.1	4.3	0.1	53.7	171.4	112.0	52.9
1997	1,994.9	1,247.4	374.4	17.0	1.6	355.7	61.9	6.1	0.0	55.8	137.2	139.8	34.2
1998	2,210.7	1,316.2	351.8	22.3	1.9	327.6	99.2	3.2	0.0	96.0	218.4	176.1	49.0
1999	2,350.6	1,440.5	340.8	22.6	0.7	317.5	94.0	5.6	0.0	88.4	282.7	167.5	25.2
2000	2,479.8	1,503.9	309.4	41.6	0.8	267.0	96.4	6.8	0.0	89.6	269.3	279.6	21.2
2001	2,166.5	1,277.2	295.3	35.7	2.0	257.7	96.1	2.9	0.0	93.2	262.4	210.6	24.9
2002	2,328.7	1,322.6	314.7	24.4	0.2	290.0	99.4	3.3	0.0	96.1	314.9	254.0	23.1
2003	2,073.1	1,168.7	259.3	13.7	0.2	245.4	158.3	3.4	0.0	154.9	283.3	187.2	16.4
2004	2,310.4	1,400.6	212.1	17.7	3.3	191.0	149.6	3.7	0.0	145.9	289.8	228.6	29.6
2005	2,239.4	1,196.5	308.5	17.7	1.1	289.7	177.6	4.9	0.0	172.8	295.3	235.5	25.9
2006	1,911.2	1,142.2	155.5	20.2	0.4	134.9	172.6	3.4	0.0	169.2	234.8	189.9	16.2
2007	2,154.2	946.1	488.6	15.1	0.2	473.4	252.7	6.7	0.0	246.1	276.6	169.7	20.5
2008	1,539.8	803.6	124.0	11.1	0.0	112.9	196.2	5.1	0.0	191.1	226.1	178.5	11.4
2009	933.3	572.3	39.0	7.5	0.0	31.5	93.9	1.8	0.0	92.1	114.0	106.4	7.7
2010	960.8	561.7	48.9	6.6	0.0	42.2	112.1	1.9	0.0	110.2	129.0	103.9	5.2
2011	799.2	435.2	34.3	3.8	0.0	30.5	102.3	1.5	0.0	100.8	115.8	109.0	2.5
2012	899.6	433.2	75.8	3.2	0.7	71.9	86.5	1.4	0.0	85.0	176.6	122.0	5.6
2013	838.5	468.5	35.4	1.0	0.8	33.6	111.6	2.5	0.0	109.1	102.8	111.9	8.3
2014	875.2	468.2	39.2	0.1	0.0	39.1	108.4	1.3	0.0	107.1	124.2	124.7	10.4
2015	934.1	446.7	75.8	0.5	0.0	75.3	116.0	1.5	0.0	114.5	134.4	150.8	10.3
2016	859.0	470.3	38.5	2.8	0.1	35.6	78.4	2.2	0.0	76.2	126.4	138.7	6.8
2017	895.3	541.6	42.4	1.6	0.1	40.7	77.0	1.5	0.0	75.4	100.2	127.9	6.2

<sup>a</sup>U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>For the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.<sup>c</sup>Fewer than 50,000 ft<sup>2</sup>.<sup>z</sup>Not Available.

Table 42—Producer price indexes for plywood, 1965–2017 (2009 = 100)<sup>a</sup>

Year	Softwood plywood									
	All plywood		All softwood plywood		Western		Southern		All hardwood plywood <sup>b</sup>	
	Actual	Relative <sup>c</sup>	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	27.2	149.9	21.8	120.1	z	z	z	z	53.8	296.2
1966	27.4	146.4	21.9	117.0	z	z	z	z	54.3	290.6
1967	26.3	136.7	20.6	106.9	z	z	z	z	53.5	278.0
1968	30.4	151.4	26.6	132.6	z	z	z	z	53.8	267.8
1969	32.3	153.1	28.7	136.1	26.9	127.6	32.1	152.6	55.8	264.7
1970	28.5	128.6	23.4	105.7	21.9	98.6	27.2	122.4	54.8	247.2
1971	30.2	129.2	26.2	112.1	24.4	104.4	31.0	133.0	47.2	202.0
1972	34.4	141.1	31.9	131.0	29.8	122.2	37.1	152.0	55.9	229.2
1973	40.9	158.6	40.0	155.3	37.7	146.4	42.9	166.5	60.4	234.5
1974	42.4	151.4	38.5	137.5	36.5	130.3	40.6	145.0	69.7	249.1
1975	42.4	138.6	41.4	135.3	39.2	128.3	42.6	139.2	64.0	209.3
1976	49.2	151.9	51.1	157.6	47.3	146.0	55.9	172.6	65.7	202.6
1977	55.8	161.6	61.0	176.7	56.2	162.6	68.1	197.2	68.3	197.7
1978	62.0	167.9	67.3	182.3	62.7	169.7	72.9	197.5	75.1	203.3
1979	65.9	165.1	66.4	166.4	63.5	159.1	66.7	167.0	90.6	226.9
1980	64.9	149.2	63.7	146.5	60.1	138.3	66.4	152.8	97.5	224.3
1981	64.7	136.2	63.2	133.1	60.7	127.8	63.1	132.9	96.3	202.8
1982	61.1	121.3	58.2	115.5	54.6	108.4	61.3	121.8	97.0	192.5
1983	64.3	122.5	64.0	122.0	59.4	113.3	69.1	131.8	96.3	183.6
1984	63.6	116.9	62.6	115.1	58.8	108.2	65.3	120.1	96.6	177.6
1985	60.8	108.5	62.5	111.4	58.8	104.9	64.9	115.7	87.2	155.5
1986	61.9	108.1	63.6	111.0	60.0	104.7	66.0	115.1	88.3	154.0
1987	62.7	106.3	63.9	108.3	60.8	103.0	65.1	110.3	90.1	152.8
1988	63.2	103.6	63.5	104.1	61.7	101.2	62.4	102.4	91.4	149.9
1989	70.8	111.8	72.3	114.1	70.6	111.6	70.1	110.7	96.8	152.9
1990	69.8	106.1	69.6	105.8	68.4	104.1	66.7	101.4	99.6	151.4
1991	69.8	102.8	70.3	103.5	69.2	101.9	67.1	98.8	99.7	146.8
1992	81.4	117.0	85.6	123.1	83.5	120.0	84.6	121.6	103.7	149.0
1993	93.3	131.0	98.7	138.6	97.3	136.6	95.6	134.2	112.0	157.3
1994	96.9	133.2	102.9	141.4	101.0	138.9	102.6	141.1	118.6	163.1
1995	101.0	135.9	109.4	147.3	105.0	141.3	112.4	151.3	118.5	159.5
1996	95.5	126.2	101.0	133.5	98.3	129.9	96.6	127.6	121.2	160.2
1997	97.3	126.0	102.1	132.2	100.0	129.5	100.0	129.5	123.3	159.6
1998	96.1	122.9	101.7	130.1	98.0	125.4	106.2	135.9	123.1	157.4
1999	107.8	135.9	120.4	151.9	116.7	147.2	125.4	158.1	124.7	157.3
2000	96.3	118.9	100.8	124.5	97.9	120.9	101.7	125.6	126.3	156.0
2001	94.3	113.7	97.6	117.8	94.3	113.7	100.2	120.9	126.5	152.6
2002	92.7	110.6	95.5	113.9	93.0	111.0	94.9	113.2	127.5	152.2
2003	102.0	121.7	114.0	136.0	111.1	132.6	123.5	147.4	125.1	149.3
2004	121.3	136.0	146.0	163.8	d	d	d	d	130.4	146.3
2005	114.1	124.0	130.0	141.3	d	d	d	d	97.0	105.4
2006	105.5	111.3	110.8	116.9	d	d	d	d	98.4	103.7
2007	107.6	110.5	115.1	118.2	d	d	d	d	99.3	102.0
2008	106.7	107.5	112.3	113.2	d	d	d	d	100.7	101.4
2009	100.0	100.0	100.0	100.0	d	d	d	d	100.0	100.0
2010	107.9	106.8	114.7	113.4	d	d	d	d	100.5	99.4
2011	104.6	101.4	108.1	104.7	d	d	d	d	100.8	97.7
2012	115.5	110.0	127.2	121.1	d	d	d	d	102.8	97.9
2013	121.9	114.2	137.8	129.1	d	d	d	d	104.8	98.1
2014	124.7	115.2	142.7	131.8	d	d	d	d	105.1	97.1
2015	121.5	110.4	136.4	124.0	d	d	d	d	105.3	95.7
2016	117.5	105.4	124.8	112.0	d	d	d	d	109.5	98.3
2017	123.9	109.2	135.5	119.4	d	d	d	d	111.3	98.1

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (70).<sup>b</sup>Hardwood plywood and related products.<sup>c</sup>Derived by dividing the actual price index by the all commodities index.<sup>d</sup>Discontinued Series after 2003.<sup>z</sup>Not Available.

**Table 43—Paper and board<sup>a</sup> production, imports, exports, and consumption, 1965–2017<sup>b</sup>**

Year	Production				Consumption		
		Imports <sup>c</sup>		Exports <sup>c</sup>	Total	Per capita	
		Thousand tons	Thousand tons				
1965	40,489	6,536	14.4	1,530	3.8	45,495	468
1966	43,904	7,178	14.5	1,696	3.9	49,386	502
1967	43,745	6,818	14.0	1,835	4.2	48,728	490
1968	47,085	6,643	12.9	2,125	4.5	51,602	514
1969	49,824	7,051	12.9	2,377	4.8	54,498	538
1970	48,719	6,845	12.9	2,433	5.0	53,131	518
1971	49,741	6,932	12.8	2,665	5.4	54,008	520
1972	53,842	7,245	12.4	2,790	5.2	58,297	555
1973	56,346	7,865	12.8	2,616	4.6	61,595	581
1974	55,756	8,128	13.4	3,058	5.5	60,827	569
1975	47,997	5,961	11.6	2,400	5.0	51,557	477
1976	54,993	6,879	11.6	2,637	4.8	59,235	543
1977	56,656	7,190	11.7	2,546	4.5	61,301	557
1978	58,571	8,311	12.9	2,583	4.4	64,299	578
1979	61,070	8,462	12.7	2,864	4.7	66,668	592
1980	61,042	8,013	12.4	4,241	6.9	64,814	569
1981	62,109	7,779	11.7	3,630	5.8	66,258	576
1982	59,290	7,321	11.6	3,494	5.9	63,117	544
1983	64,947	8,357	12.0	3,786	5.8	69,519	593
1984	68,449	10,148	13.5	3,542	5.2	75,055	635
1985	66,983	10,444	14.1	3,290	4.9	74,137	622
1986	70,905	10,922	14.0	3,972	5.6	77,855	647
1987	74,361	11,855	14.4	4,111	5.5	82,105	676
1988	76,587	12,184	14.4	4,239	5.5	84,532	690
1989	76,786	12,027	14.3	4,713	6.1	84,100	680
1990	78,679	12,195	14.2	5,163	6.6	85,711	686
1991	79,427	11,086	13.2	6,435	8.1	84,078	665
1992	82,868	11,731	13.4	7,021	8.5	87,578	686
1993	84,857	12,990	14.3	6,835	8.1	91,013	705
1994	89,080	13,651	14.3	7,536	8.5	95,195	730
1995	89,509	14,238	14.8	7,621	8.5	96,126	731
1996	90,381	13,023	13.8	9,118	10.1	94,287	710
1997	95,029	14,513	14.6	10,367	10.9	99,175	740
1998	94,510	15,571	15.4	9,103	9.6	100,978	747
1999	97,020	16,678	15.9	8,824	9.1	104,873	768
2000	94,491	17,356	16.8	8,701	9.2	103,147	731
2001	88,913	16,449	16.9	8,059	9.1	97,303	683
2002	89,636	16,567	17.0	8,976	10.0	97,227	676
2003	88,385	18,109	18.1	6,238	7.1	100,256	689
2004	91,899	19,036	18.3	6,742	7.3	104,193	709
2005	91,031	17,958	17.6	7,125	7.8	101,864	687
2006	91,800	17,724	17.3	7,085	7.7	102,439	707
2007	91,570	16,321	16.3	8,066	8.8	99,825	662
2008	87,619	14,675	15.7	8,654	9.9	93,640	615
2009	78,299	11,218	13.7	7,750	9.9	81,767	532
2010	82,968	11,144	13.1	8,781	10.6	85,331	551
2011	81,519	10,670	12.9	9,331	11.4	82,858	531
2012	80,916	10,441	12.7	9,036	11.2	82,321	524
2013	80,478	10,967	14.0	12,842	16.0	78,603	497
2014	79,488	11,301	14.5	12,743	16.0	78,046	489
2015	79,024	10,746	13.9	12,326	15.6	77,444	482
2016	78,342	10,512	13.6	11,679	14.9	77,175	477
2017	78,445	10,454	13.6	12,274	15.6	76,625	470

<sup>a</sup>Excludes hardboard, wet machine board, and construction grades.<sup>b</sup>Numbers are the sum of Table 44 and Table 45.<sup>c</sup>Excludes converted products.

**Table 44—Paper shipments, imports, exports, and consumption, 1965–2017<sup>a</sup>**

Year	Shipments <sup>b,c</sup> Thousand tons	Imports <sup>b,c,d</sup>		Exports <sup>b,c</sup>		Consumption	
		Thousand tons	Percent of consumption	Thousand tons	Percent of production	Total <sup>e</sup> Thousand tons	Per capita <sup>f</sup> Pounds
1965	19,157	6,528	25.9	491	2.6	25,194	259
1966	20,725	7,128	26.1	530	2.6	27,323	278
1967	20,926	6,805	25.0	501	2.4	27,230	274
1968	22,181	6,625	23.4	529	2.4	28,277	282
1969	23,449	7,040	23.5	517	2.2	29,972	296
1970	23,351	6,835	23.1	534	2.3	29,652	289
1971	23,722	6,915	23.0	550	2.3	30,087	290
1972	25,359	7,237	22.6	559	2.2	32,037	305
1973	26,797	7,832	23.0	601	2.2	34,028	321
1974	26,863	8,094	23.8	909	3.4	34,049	318
1975	23,260	5,953	21.1	947	4.1	28,266	262
1976	26,577	6,866	21.1	928	3.5	32,515	298
1977	27,722	7,162	21.0	716	2.6	34,168	310
1978	28,320	8,211	22.8	543	1.9	35,988	323
1979	29,666	8,380	22.4	601	2.0	37,445	333
1980	30,116	7,915	21.3	907	3.0	37,124	326
1981	30,901	7,649	20.4	1,008	3.3	37,542	326
1982	30,245	7,206	19.7	840	2.8	36,611	315
1983	32,802	8,189	20.4	774	2.4	40,217	343
1984	34,446	9,905	22.7	811	2.4	43,540	369
1985	34,061	10,260	23.6	779	2.3	43,542	365
1986	35,550	10,641	23.5	884	2.5	45,307	376
1987	36,919	11,494	24.2	921	2.5	47,492	391
1988	38,353	11,843	24.1	1,102	2.9	49,094	401
1989	38,266	11,494	23.8	1,466	3.8	48,295	391
1990	39,361	11,569	23.4	1,519	3.9	49,411	395
1991	39,084	10,313	21.8	2,072	5.3	47,325	375
1992	40,973	10,787	22.0	2,635	6.4	49,125	385
1993	41,745	11,905	23.3	2,587	6.2	51,063	396
1994	43,356	12,384	23.5	2,980	6.9	52,760	405
1995	42,868	12,820	24.3	3,011	7.0	52,677	401
1996	42,481	11,694	23.1	3,500	8.2	50,676	382
1997	44,697	13,016	24.1	3,599	8.1	54,114	404
1998	44,761	13,905	25.1	3,288	7.3	55,378	410
1999	45,979	14,707	25.7	3,405	7.4	57,281	419
2000	45,519	15,373	26.9	3,767	8.3	57,125	405
2001	42,104	14,502	27.3	3,389	8.0	53,217	374
2002	41,510	14,502	27.4	3,111	7.5	52,901	368
2003	40,367	16,224	30.3	3,107	7.7	53,484	367
2004	41,814	16,938	30.6	3,464	8.3	55,288	376
2005	41,321	15,995	29.9	3,739	9.0	53,578	361
2006	41,380	15,648	29.3	3,690	8.9	53,338	368
2007	41,170	14,408	28.1	4,346	10.6	51,231	340
2008	39,028	12,892	27.3	4,716	12.1	47,205	310
2009	33,808	9,671	24.6	4,216	12.5	39,263	256
2010	35,508	9,284	23.2	4,700	13.2	40,092	259
2011	34,130	8,887	23.2	4,782	14.0	38,235	245
2012	33,157	8,738	23.5	4,638	14.0	37,257	237
2013	32,328	9,041	24.6	4,545	14.1	36,824	233
2014	30,606	9,206	25.8	4,101	13.4	35,711	224
2015	29,655	8,518	24.7	3,678	12.4	34,495	215
2016	28,611	8,182	24.4	3,256	11.4	33,537	207
2017	27,456	7,868	24.6	3,350	12.2	31,974	196

<sup>a</sup>Excludes building paper and converted products.<sup>b</sup>American Forest & Paper Association (5).<sup>c</sup>American Forest & Paper Association (3).<sup>d</sup>This import series incorporates data on Canadian exports of newsprint & uncoated groundwood to the U.S. rather than U.S. Dept. of Commerce import data for these commodities. Such data for 1998 obtained from the Canadian Pulp & Paper Association (CPPA) in Ottawa, Canada, by fax communication.<sup>e</sup>Consumption = Production + Imports - Exports.<sup>f</sup>Based upon population data given in Table 1.

Table 45—Paperboard<sup>a</sup> production, <sup>b</sup> imports, exports, and consumption, 1965–2017

Year	Production <sup>c,d</sup> Thousand metric tons	Imports <sup>c,d</sup>		Exports <sup>c,d,e</sup> Thousand metric tons		Consumption	
		Thousand metric tons	Percent of consumption	Thousand metric tons	Percent of production	Total <sup>f</sup> Thousand metric tons	Per capita <sup>g</sup> Metric tons
1965	19,348	7	0.0	942	4.9	18,413	0.095
1966	21,023	45	0.2	1,058	5.0	20,011	0.102
1967	20,697	12	0.1	1,210	5.8	19,499	0.098
1968	22,588	16	0.1	1,448	6.4	21,156	0.106
1969	23,923	10	0.0	1,687	7.1	22,246	0.110
1970	23,008	9	0.0	1,722	7.5	21,295	0.104
1971	23,599	15	0.1	1,918	8.1	21,696	0.105
1972	25,834	7	0.0	2,024	7.8	23,818	0.114
1973	26,801	30	0.1	1,828	6.8	25,003	0.118
1974	26,206	31	0.1	1,949	7.4	24,288	0.114
1975	22,436	7	0.0	1,318	5.9	21,125	0.098
1976	25,773	12	0.0	1,550	6.0	24,235	0.111
1977	26,244	25	0.1	1,660	6.3	24,609	0.112
1978	27,438	91	0.4	1,850	6.7	25,678	0.115
1979	28,483	74	0.3	2,053	7.2	26,505	0.118
1980	28,050	89	0.4	3,024	10.8	25,115	0.110
1981	28,306	118	0.5	2,378	8.4	26,045	0.113
1982	26,344	104	0.4	2,407	9.1	24,041	0.104
1983	29,156	152	0.6	2,732	9.4	26,577	0.114
1984	30,840	220	0.8	2,477	8.0	28,583	0.121
1985	29,860	167	0.6	2,277	7.6	27,750	0.116
1986	32,067	255	0.9	2,801	8.7	29,521	0.123
1987	33,960	327	1.0	2,893	8.5	31,394	0.129
1988	34,678	309	1.0	2,845	8.2	32,142	0.131
1989	34,937	483	1.5	2,945	8.4	32,475	0.131
1990	35,661	568	1.7	3,305	9.3	32,924	0.132
1991	36,591	701	2.1	3,957	10.8	33,335	0.132
1992	37,999	856	2.5	3,978	10.5	34,877	0.137
1993	39,103	984	2.7	3,853	9.9	36,234	0.141
1994	41,472	1,149	3.0	4,132	10.0	38,489	0.148
1995	42,303	1,286	3.3	4,181	9.9	39,408	0.150
1996	43,445	1,205	3.0	5,096	11.7	39,555	0.149
1997	45,651	1,358	3.3	6,138	13.4	40,870	0.153
1998	45,122	1,511	3.7	5,274	11.7	41,359	0.153
1999	46,294	1,788	4.1	4,915	10.6	43,167	0.158
2000	44,418	1,799	4.3	4,475	10.1	41,741	0.148
2001	42,456	1,767	4.4	4,235	10.0	39,987	0.141
2002	43,650	1,873	4.7	5,320	12.2	40,204	0.140
2003	43,552	1,709	4.0	2,840	6.5	42,422	0.146
2004	45,427	1,903	4.3	2,973	6.5	44,357	0.151
2005	45,087	1,781	4.1	3,072	6.8	43,796	0.148
2006	45,731	1,883	4.2	3,079	6.7	44,535	0.154
2007	45,713	1,735	3.9	3,374	7.4	44,075	0.146
2008	44,072	1,617	3.8	3,573	8.1	42,117	0.138
2009	40,353	1,403	3.6	3,205	7.9	38,551	0.126
2010	43,046	1,687	4.1	3,701	8.6	41,032	0.133
2011	42,982	1,617	4.0	4,126	9.6	40,473	0.130
2012	43,317	1,545	3.8	3,989	9.2	40,873	0.130
2013	43,672	1,747	4.6	7,525	17.2	37,894	0.120
2014	44,336	1,900	4.9	7,838	17.7	38,398	0.121
2015	44,778	2,021	5.2	7,844	17.5	38,955	0.121
2016	45,106	2,113	5.3	7,640	16.9	39,580	0.122
2017	46,247	2,346	5.8	8,094	17.5	40,498	0.124

<sup>a</sup>Does not include wet machine board, hard pressed board nor insulation board. Does not include converted products.<sup>b</sup>By end use.<sup>c</sup>American Forest & Paper Association (5).<sup>d</sup>American Forest & Paper Association (3).<sup>e</sup>This export series represents production for export; numbers may differ from exports reported by U.S. Dept. of Commerce.<sup>f</sup>Consumption = Production + Imports – Exports.<sup>g</sup>Based upon population data given in Table 1.

Table 46—Paper and board production and fibrous materials consumed in the manufacture of paper and board, 1965–2017

Year	Paper and board <sup>a</sup>		Consumption of fibrous materials			Consumption of fibrous materials per ton of paper and board produced			Recovered paper utilization rate	
	production <sup>b,e</sup>	Total Thousand tons	Wood pulp <sup>c</sup>		Recovered paper <sup>d</sup> Tons	Other <sup>e</sup> Thousand tons	Total Tons	Wood pulp Tons	Recovered paper <sup>g</sup> Tons	Other Tons
			Total Thousand tons	Wood pulp Thousand tons						
1965	40,489	46,838	35,728	10,231	879	1.157	0.882	0.253	0.022	25.3
1966	43,904	49,958	38,414	10,564	980	1.138	0.875	0.241	0.022	24.1
1967	43,745	48,846	38,122	9,888	836	1.117	0.871	0.226	0.019	22.6
1968	47,085	53,635	42,508	10,222	905	1.139	0.903	0.217	0.019	21.7
1969	49,824	57,597	44,750	11,969	878	1.156	0.898	0.240	0.018	24.0
1970	48,719	56,595	43,964	11,803	828	1.162	0.902	0.242	0.017	24.2
1971	49,741	58,224	45,243	12,106	875	1.171	0.910	0.243	0.018	24.3
1972	53,842	62,059	48,242	12,925	892	1.153	0.896	0.240	0.017	24.0
1973	56,346	64,953	49,976	14,094	883	1.153	0.887	0.250	0.016	25.0
1974	55,756	64,490	49,670	13,982	838	1.157	0.891	0.251	0.015	25.1
1975	47,997	55,970	43,597	11,748	625	1.166	0.908	0.245	0.013	24.5
1976	54,993	63,294	48,930	13,622	742	1.151	0.890	0.248	0.013	24.8
1977	56,656	65,240	50,356	14,058	826	1.152	0.889	0.248	0.015	24.8
1978	58,571	67,059	51,445	14,760	854	1.145	0.878	0.252	0.015	25.2
1979	61,070	68,648	52,560	15,361	727	1.124	0.861	0.252	0.012	25.2
1980	61,042	68,727	53,203	14,922	602	1.126	0.872	0.244	0.010	24.4
1981	62,109	68,828	53,199	15,037	592	1.108	0.857	0.242	0.010	24.2
1982	59,290	66,611	51,729	14,433	449	1.123	0.872	0.243	0.008	24.3
1983	64,947	70,573	54,504	15,638	431	1.087	0.839	0.241	0.007	24.1
1984	68,449	75,732	58,643	16,724	365	1.106	0.857	0.244	0.005	24.4
1985	66,983	71,482	54,816	16,371	295	1.067	0.818	0.244	0.004	24.4
1986	70,905	75,368	57,121	17,934	313	1.063	0.806	0.253	0.004	25.3
1987	74,361	78,522	59,508	18,694	320	1.056	0.800	0.251	0.004	25.1
1988	76,587	80,730	60,668	19,685	377	1.054	0.792	0.257	0.005	25.7
1989	76,786	81,772	61,234	20,220	318	1.065	0.797	0.263	0.004	26.3
1990	78,679	84,040	62,036	21,736	268	1.068	0.788	0.276	0.003	27.6
1991	79,427	86,143	62,294	23,662	187	1.085	0.784	0.298	0.002	29.8
1992	82,868	89,507	63,145	26,185	177	1.080	0.762	0.316	0.002	31.6
1993	84,857	91,471	63,227	28,011	233	1.078	0.745	0.330	0.003	33.0
1994	89,080	95,771	64,842	30,670	259	1.075	0.728	0.344	0.003	34.4
1995	89,509	96,529	64,811	31,389	329	1.078	0.724	0.351	0.004	35.1
1996	90,381	98,410	64,025	33,979	406	1.089	0.708	0.376	0.004	37.6
1997	95,029	101,591	66,057	35,209	298	1.069	0.695	0.371	0.003	37.1
1998	94,510	101,218	65,122	35,771	249	1.071	0.689	0.378	0.003	37.8
1999	97,020	100,690	63,638	36,727	255	1.038	0.656	0.379	0.003	37.9
2000	94,491	99,348	63,576	35,447	254	1.051	0.673	0.375	0.003	37.5
2001	88,913	94,232	59,380	34,527	268	1.060	0.668	0.388	0.003	38.8
2002	89,636	93,967	59,063	34,579	261	1.048	0.659	0.386	0.003	38.6
2003	88,385	92,478	58,503	33,650	236	1.046	0.662	0.381	0.003	38.1
2004	91,899	94,627	59,566	34,736	212	1.030	0.648	0.378	0.002	37.8
2005	91,031	94,891	60,616	33,950	206	1.042	0.666	0.373	0.002	37.3
2006	91,800	95,697	60,901	34,471	215	1.042	0.663	0.376	0.002	37.6
2007	91,570	89,841	55,598	33,918	215	0.981	0.607	0.370	0.002	37.0
2008	87,619	87,950	55,227	32,398	215	1.004	0.630	0.370	0.002	37.0
2009	78,299	79,021	49,647	29,049	172	1.009	0.634	0.371	0.002	37.1
2010	82,968	84,903	53,241	31,337	176	1.023	0.642	0.378	0.002	37.8
2011	81,519	82,792	52,174	30,293	179	1.016	0.640	0.372	0.002	37.2
2012	80,916	82,972	52,949	29,698	180	1.025	0.654	0.367	0.002	36.7
2013	80,478	82,684	52,431	29,928	161	1.027	0.651	0.372	0.002	37.2
2014	79,488	82,417	51,592	30,500	164	1.037	0.649	0.384	0.002	38.4
2015	79,024	81,611	50,422	30,864	109	1.033	0.638	0.391	0.001	39.1
2016	78,342	81,705	50,547	30,833	103	1.043	0.645	0.394	0.001	39.4
2017	78,445	81,848	50,360	31,163	105	1.043	0.642	0.397	0.001	39.7

<sup>a</sup>Excludes wet machine board and construction grades.<sup>b</sup>Production numbers = totals in Table 43. Source: see (e) below.<sup>c</sup>Wood pulp consumption numbers from Table 49.<sup>d</sup>American Forest & Paper Association (5), American Forest & Paper Association, Paper Recycling Group (7).<sup>e</sup>When given in percents, referred to as "Recovered Paper Utilization Rate".<sup>h</sup>Recovery Rate is the ratio of paper and board production to recovered paper consumption.

**Table 47—Paper and board new supply and recyclable paper consumption, exports, imports, and total recovered, 1965–2017<sup>a,b,c</sup>**

Year	Paper and board— new supply <sup>d</sup> <i>Thousand tons</i>	Recyclable paper					
		Consumed at paper and board mills <i>Thousand tons</i>	For molded pulp, insulation, and other uses <i>Thousand tons</i>		Exports <i>Thousand tons</i>	Imports <i>Thousand tons</i>	Total recovered <sup>e</sup> <i>Thousand tons</i>
			Exports <i>Thousand tons</i>	Imports <i>Thousand tons</i>			
1965	48,270	10,231	z	292	108	z	z
1966	52,118	10,564	z	246	113	z	z
1967	51,435	9,888	z	262	86	z	z
1968	54,351	10,222	z	253	93	z	z
1969	57,423	11,969	z	289	75	z	z
1970	55,969	11,803	418	408	67	12,562	22.4
1971	57,450	12,106	442	419	68	12,899	22.4
1972	62,040	12,925	447	415	88	13,699	22.1
1973	65,004	14,094	499	683	87	15,189	23.4
1974	63,308	13,982	489	1,307	89	15,689	24.8
1975	54,113	11,748	535	861	72	13,072	24.2
1976	62,014	13,622	630	1,273	106	15,419	24.9
1977	64,243	14,058	870	1,512	92	16,348	25.4
1978	67,787	14,760	502	1,613	70	16,805	24.8
1979	69,796	15,361	509	2,127	78	17,919	25.7
1980	67,166	14,922	472	2,636	87	17,943	26.7
1981	67,957	15,037	480	2,282	79	17,720	26.1
1982	64,730	14,433	487	2,233	74	17,078	26.4
1983	71,166	15,638	474	2,705	100	18,727	26.3
1984	76,937	16,724	459	3,456	110	20,530	26.7
1985	76,133	16,371	529	3,556	88	20,369	26.8
1986	79,752	17,934	594	4,093	99	22,521	28.2
1987	83,484	18,694	657	4,809	127	24,033	28.8
1988	85,720	19,685	703	5,953	161	26,179	30.5
1989	85,370	20,220	722	6,307	173	27,077	31.7
1990	86,901	21,736	994	6,505	123	29,112	33.5
1991	85,145	23,662	1,063	6,598	122	31,201	36.6
1992	88,369	26,185	1,137	6,782	150	33,955	38.4
1993	91,639	28,011	1,216	6,371	138	35,460	38.7
1994	95,717	30,670	1,300	7,974	253	39,691	41.5
1995	95,971	31,389	1,390	9,908	498	42,189	44.0
1996	94,529	33,979	1,487	8,084	474	43,077	45.6
1997	99,556	35,209	1,590	7,882	693	43,989	44.2
1998	101,183	35,771	1,700	8,117	511	45,077	44.6
1999	105,316	36,727	2,000	8,517	426	46,818	44.5
2000	102,811	35,447	2,200	10,272	608	47,311	46.0
2001	97,395	34,527	2,200	10,597	328	46,996	48.3
2002	98,949	34,579	2,200	11,267	411	47,635	48.1
2003	98,016	33,650	2,200	13,805	399	49,256	50.3
2004	101,882	34,736	2,200	13,910	558	50,288	49.5
2005	99,613	33,950	2,000	15,868	545	51,272	51.5
2006	100,665	34,471	1,825	17,501	483	53,314	53.0
2007	97,007	33,918	1,285	19,886	764	54,325	56.0
2008	89,838	32,398	745	19,469	789	51,822	57.7
2009	78,710	29,049	300	21,017	331	50,036	63.4
2010	81,784	31,337	300	20,692	784	51,545	63.5
2011	79,444	30,293	300	23,197	1,005	52,767	66.8
2012	78,619	29,698	300	22,188	1,094	51,092	65.1
2013	78,761	29,928	300	20,794	894	50,128	63.5
2014	77,504	30,500	475	21,059	863	51,171	65.4
2015	77,895	30,864	475	21,479	778	52,040	66.8
2016	77,730	30,833	500	21,752	889	52,196	67.2
2017	77,269	31,163	500	20,149	990	50,822	65.8

<sup>a</sup>Includes paper, paperboard, wet machine board and construction paper and board.<sup>b</sup>American Forest and Paper Association (7).<sup>c</sup>Data may not add to totals because of rounding.<sup>d</sup>Production plus imports less exports. Includes imports and exports of products.<sup>e</sup>Total recovered paper = total recyclable paper consumption plus exports less imports.<sup>f</sup>Recovery rate is the ratio of total recovered paper collected to new supply of paper and paperboard.<sup>z</sup>Not Available.

**Table 48—Recovered paper consumption, by major grade, in paper and paperboard manufacture<sup>a</sup>, 1970–2017 (thousand short tons)<sup>b</sup>**

Year	Recovered paper consumption					Total all grades	Total recovery rate (%) <sup>d,r</sup>
	Mixed grades	Old newspapers	Old corrugated	Pulp substitutes <sup>c</sup>	High grade deinking		
1970	2,639.0	2,235.0	4,080.0	3,067.0	<sup>z</sup>	12,021.0	22.4
1971	2,776.0	2,174.0	4,277.0	3,096.0	<sup>z</sup>	12,323.0	22.4
1972	3,054.0	2,317.0	4,722.0	3,039.0	<sup>z</sup>	13,132.0	22.1
1973	3,371.0	2,456.0	5,292.0	3,199.0	<sup>z</sup>	14,318.0	23.4
1974	3,118.0	2,408.0	5,716.0	2,954.0	<sup>z</sup>	14,196.0	24.8
1975	2,606.0	2,040.0	4,743.0	2,594.0	<sup>z</sup>	11,983.0	24.2
1976	2,798.0	2,278.0	5,696.0	2,117.0	933.0	13,822.0	24.9
1977	2,773.0	2,287.0	6,205.0	2,079.0	944.0	14,288.0	25.4
1978	2,729.0	2,212.0	6,721.0	2,242.0	1,068.0	14,972.0	24.8
1979	2,648.0	2,480.0	6,967.0	2,308.0	1,117.0	15,520.0	25.7
1980	2,268.0	2,564.0	6,866.0	2,254.0	1,142.0	15,094.0	26.7
1981	2,233.0	2,552.0	6,910.0	2,307.0	1,215.0	15,217.0	26.1
1982	1,707.0	2,673.0	6,770.0	2,247.0	1,223.0	14,620.0	26.4
1983	1,908.0	2,692.0	7,443.0	2,456.0	1,323.0	15,822.0	26.3
1984	1,974.5	2,894.8	7,971.7	2,673.4	1,368.6	16,883.0	26.7
1985	1,901.5	2,875.0	7,899.5	2,493.7	1,380.4	16,550.1	26.8
1986	2,044.5	3,117.8	8,633.6	2,761.5	1,570.3	18,127.7	28.2
1987	2,116.0	3,142.6	9,176.7	2,902.2	1,563.5	18,901.0	28.8
1988	2,182.2	3,215.6	9,909.1	2,889.5	1,691.1	19,887.5	30.5
1989	2,355.8	3,638.1	9,993.5	2,642.4	1,812.4	20,442.2	31.7
1990	2,504.9	4,084.5	10,686.5	2,731.8	1,999.8	22,007.5	33.5
1991	2,890.6	4,572.4	11,247.0	2,988.5	2,239.5	23,938.0	36.6
1992	3,463.8	4,816.9	12,532.3	2,997.7	2,669.1	26,479.8	38.4
1993	4,110.1	5,000.3	13,566.8	2,802.1	2,856.8	28,336.1	38.7
1994	4,786.0	5,368.0	15,009.6	2,696.0	3,090.0	30,949.6	41.5
1995	4,529.4	5,157.3	16,513.5	2,459.1	3,004.0	31,663.3	44.0
1996	4,801.7	5,238.4	18,733.3	2,428.8	3,039.9	34,242.1	45.6
1997	4,698.6	5,561.5	19,640.8	2,640.3	2,954.6	35,495.8	44.2
1998	5,440.8	5,611.3	19,530.1	2,341.8	3,147.8	36,071.8	44.6
1999 <sup>r</sup>	5,592.1	5,539.9	20,457.8	2,431.7	3,003.2	37,024.7	44.5
2000	4,948.0	5,809.0	19,968.0	1,890.0	3,129.0	35,744.0	46.0
2001	4,800.0	6,077.0	19,348.0	1,845.0	2,750.0	34,820.0	48.3
2002	4,877.0	5,957.0	19,627.0	1,705.0	2,695.0	34,861.0	48.1
2003	4,591.0	5,756.0	19,294.0	1,818.0	2,473.0	33,932.0	50.3
2004	4,976.0	5,867.0	19,926.0	1,701.0	2,537.0	35,007.0	49.5
2005	4,519.0	5,700.0	20,024.0	1,438.0	2,523.0	34,204.0	51.5
2006	4,690.0	5,807.0	19,967.0	1,541.0	2,721.0	34,726.0	53.0
2007	4,481.0	5,272.0	20,159.0	1,487.0	2,775.0	34,174.0	56.0
2008	4,564.0	4,850.0	19,161.0	1,359.0	2,721.0	32,655.0	57.7
2009	4,150.0	3,826.0	17,415.0	1,218.0	2,659.0	29,268.0	63.4
2010	4,371.0	3,886.0	19,327.0	1,260.0	2,708.0	31,552.0	63.5
2011	3,950.0	3,441.0	19,339.0	1,204.0	2,574.0	30,508.0	66.8
2012	4,204.0	2,877.0	19,057.0	1,171.0	2,604.0	29,913.0	65.1
2013	3,998.0	2,468.0	19,805.0	1,166.0	2,706.0	30,143.0	63.5
2014	3,730.0	1,806.0	20,474.0	1,029.0	3,460.0	30,500.0	65.4
2015	3,619.0	1,601.0	21,184.0	1,030.0	3,430.0	30,864.0	66.8
2016	3,731.0	1,436.0	21,241.0	993.0	3,432.0	30,833.0	67.2
2017	3,724.0	1,242.0	21,987.0	1,002.0	3,208.0	31,163.0	65.8

<sup>a</sup>Includes paper, paperboard, construction grades and molded pulp grades.

<sup>b</sup>American Forest and Paper Association (7).

<sup>c</sup>For years 1972–1975, high grade deinking is included with pulp substitutes.

<sup>d</sup>Recovery rate is the ratio of total recovered paper collected to new supply of paper and paperboard.

<sup>r</sup>Revised (1985–1999 Total recovery on Table 47).

<sup>z</sup>Not available separately; included with pulp substitutes.

Table 49—Wood pulp production, imports, exports, and consumption, 1965–2017<sup>a</sup>

Year	Production <sup>b,d</sup>	Imports		Exports <sup>d</sup>		Consumption <sup>c</sup>	
		Thousand tons	Thousand tons	Percent of consumption	Thousand tons	Percent of production	Total Thousand tons Per capita <sup>d</sup> Pounds
1965	33,993	3,137	8.8	1,402	4.1	35,728	368
1966	36,603	3,358	8.7	1,547	4.2	38,414	391
1967	36,677	3,166	8.3	1,721	4.7	38,122	384
1968	40,892	3,532	8.3	1,916	4.7	42,508	424
1969	42,813	4,040	9.0	2,103	4.9	44,750	442
1970	43,546	3,513	8.0	3,095	7.1	43,964	429
1971	43,903	3,515	7.8	2,175	5.0	45,243	436
1972	46,767	3,728	7.7	2,253	4.8	48,242	460
1973	48,327	3,993	8.0	2,344	4.9	49,976	472
1974	48,349	4,123	8.3	2,802	5.8	49,670	464
1975	43,084	3,078	7.1	2,565	6.0	43,597	404
1976	47,721	3,727	7.6	2,518	5.3	48,930	449
1977	49,132	3,864	7.7	2,640	5.4	50,356	457
1978	50,020	4,024	7.8	2,599	5.2	51,445	462
1979	51,177	4,318	8.2	2,935	5.7	52,560	467
1980	52,958	4,051	7.6	3,806	7.2	53,203	467
1981	52,790	4,087	7.7	3,678	7.0	53,199	463
1982	51,468	3,656	7.1	3,395	6.6	51,729	446
1983	54,055	4,093	7.5	3,644	6.7	54,504	465
1984	57,747	4,490	7.7	3,594	6.2	58,643	496
1985	54,145	4,466	8.1	3,795	7.0	54,816	460
1986	56,997	4,582	8.0	4,458	7.8	57,121	475
1987	59,547	4,850	8.2	4,889	8.2	59,508	490
1988	61,158	5,038	8.3	5,528	9.0	60,668	495
1989	61,996	5,004	8.2	5,766	9.3	61,234	495
1990	63,048	4,893	7.9	5,905	9.4	62,036	496
1991	63,635	4,997	8.0	6,338	10.0	62,294	493
1992	65,338	5,029	8.0	7,222	11.1	63,145	494
1993	64,313	5,413	8.6	6,499	10.1	63,227	490
1994	65,920	5,650	8.7	6,728	10.2	64,842	497
1995	67,103	5,969	9.2	8,261	12.3	64,811	493
1996	65,503	5,692	8.9	7,170	10.9	64,025	482
1997	66,650	6,398	9.7	6,990	10.5	66,057	493
1998	65,163	5,984	9.2	6,025	9.2	65,122	482
1999 <sup>r</sup>	62,914	6,660	10.5	5,936	9.4	63,638	466
2000	62,758	7,227	11.4	6,409	10.2	63,576	451
2001	58,198	7,348	12.4	6,167	10.6	59,380	417
2002	58,069	7,247	12.3	6,254	10.8	59,063	411
2003	57,659	6,691	11.4	5,847	10.1	58,503	402
2004	59,065	6,726	11.3	6,225	10.5	59,566	405
2005	60,267	6,762	11.2	6,413	10.6	60,616	409
2006	60,568	6,939	11.4	6,606	10.9	60,901	420
2007	55,636	6,793	12.2	6,831	12.3	55,598	369
2008	56,745	6,272	11.4	7,790	13.7	55,227	363
2009	52,122	5,044	10	7,519	14.4	49,647	323
2010	55,343	6,163	11.6	8,265	14.9	53,241	344
2011	55,125	6,117	11.7	9,068	16.4	52,174	334
2012	55,475	5,599	10.6	8,125	14.6	52,949	337
2013	54,466	6,112	11.7	8,147	15.0	52,431	331
2014	53,367	6,126	11.9	7,901	14.8	51,592	324
2015	52,646	5,872	11.6	8,096	15.4	50,422	314
2016	52,701	6,161	12.2	8,315	15.8	50,547	312
2017	52,701	6,026	12.0	8,367	15.9	50,360	309

<sup>a</sup>Includes dissolving and special alpha pulps, excludes defibrated/exploded pulps and screenings.<sup>b</sup>United Nations Food and Agriculture Organization (41); American Forest and Paper Association (2,4).<sup>c</sup>Consumption = Production + Imports – Exports.<sup>d</sup>Based on U.S. population data given in Table 1.<sup>r</sup>Revised.

**Table 50—Pulpwood consumed in the manufacture  
of wood pulp, 1965–2017<sup>a</sup>**

Year	Pulpwood consumption <sup>b</sup>		
	Total <i>Thousand cords</i>	Per ton of pulp produced <i>Cords</i>	Wood pulp production <i>Thousand tons</i>
1965	54,034	1.59	33,993
1966	57,399	1.57	36,603
1967	58,419	1.59	36,677
1968	60,969	1.49	40,892
1969	64,577	1.51	42,813
1970	66,732	1.53	43,546
1971	66,601	1.52	43,903
1972	68,068	1.46	46,767
1973	71,421	1.48	48,327
1974	75,787	1.57	48,349
1975	63,941	1.48	43,084
1976	71,094	1.49	47,721
1977	72,952	1.48	49,132
1978	75,073	1.50	50,020
1979	78,680	1.54	51,177
1980	81,921	1.55	52,958
1981	81,003	1.53	52,790
1982	76,912	1.49	51,468
1983	84,504	1.56	54,055
1984	86,282	1.49	57,747
1985	85,380	1.58	54,145
1986	91,187	1.60	56,997
1987	93,005	1.56	59,547
1988	93,000	1.52	61,158
1989	92,615	1.49	61,996
1990	92,561	1.47	63,048
1991	91,925	1.44	63,635
1992	93,642	1.43	65,338
1993	90,996	1.41	64,313
1994	93,259	1.41	65,920
1995	93,013	1.39	67,103
1996	88,246	1.35	65,503
1997	92,312	1.39	66,650
1998	90,591	1.39	65,163
1999	86,969	1.38	62,914
2000	87,453	1.39	62,758
2001	83,384	1.43	58,198
2002	82,715	1.42	58,069
2003	85,001	1.47	57,659
2004	101,394	1.72	59,065
2005	100,048	1.66	60,267
2006	100,414	1.66	60,568
2007	99,223	1.78	55,636
2008	96,203	1.70	56,745
2009	88,270	1.69	52,122
2010	92,209	1.67	55,343
2011	94,254	1.71	55,125
2012	95,017	1.71	55,475
2013	95,125	1.75	54,466
2014	93,565	1.75	53,367
2015	92,061	1.75	52,646
2016	91,824	1.74	52,701
2017	90,852	1.72	52,701

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (68); American Forest and Paper Association (3,5,6); American Pulpwood Association (10). Data may not add to totals because of rounding.

<sup>b</sup>Includes changes in inventories.

**Table 51—Producer price indexes for paper, board, and wood pulp, 1965–2017 (2009 = 100)<sup>a</sup>**

Year	Pulp, paper, and allied products		Paper		Paperboard		Building paper and board		Wood pulp	
	Actual	Relative <sup>b</sup>	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	14.8	81.2	18.4	101.1	19.2	105.7	26.9	148.1	17.6	96.7
1966	15.2	81.1	19.0	101.6	19.4	103.5	26.9	143.9	17.6	94.0
1967	15.3	79.6	19.4	100.9	18.9	98.2	26.7	138.7	17.6	91.3
1968	15.5	77.2	19.8	98.6	18.1	90.3	26.9	133.8	17.6	87.4
1969	16.0	75.7	20.5	97.2	18.8	89.3	28.2	133.7	17.6	83.4
1970	16.6	74.9	21.6	97.4	19.2	86.3	27.0	121.5	19.2	86.7
1971	16.9	72.3	22.2	95.1	19.4	83.1	27.4	117.4	19.7	84.4
1972	17.4	71.5	22.6	92.7	20.0	82.0	28.4	116.4	19.6	80.3
1973	18.8	72.8	23.6	91.6	21.8	84.7	30.1	116.8	22.5	87.3
1974	23.3	83.1	28.9	103.2	28.8	102.9	33.0	117.8	38.3	136.7
1975	26.2	85.5	33.6	110.0	32.2	105.4	33.9	111.0	49.8	162.9
1976	27.5	84.9	35.5	109.4	33.3	102.9	37.0	114.2	50.3	155.1
1977	28.6	82.9	37.8	109.3	33.3	96.6	41.9	121.4	49.4	143.0
1978	30.0	81.3	40.1	108.6	34.0	92.1	50.0	135.3	46.8	126.7
1979	33.6	84.3	44.7	111.9	38.3	95.9	48.7	122.0	55.2	138.3
1980	38.3	88.0	49.9	114.9	44.4	102.1	55.0	126.6	66.8	153.6
1981	42.0	88.5	54.4	114.5	48.8	102.8	61.8	130.1	69.8	146.9
1982	44.3	88.0	55.7	110.5	48.3	95.8	63.9	126.8	66.6	132.2
1983	45.8	87.3	54.8	104.6	47.5	90.5	66.7	127.2	60.9	116.1
1984	48.9	89.9	58.9	108.3	53.3	98.0	69.1	127.1	69.8	128.3
1985	50.2	89.5	59.0	105.2	52.0	92.7	68.6	122.4	60.9	108.5
1986	51.5	89.8	59.6	104.0	51.4	89.8	69.5	121.3	63.0	110.0
1987	54.0	91.6	62.1	105.3	57.0	96.7	71.1	120.5	74.2	125.9
1988	57.8	94.8	68.6	112.5	64.3	105.5	72.4	118.8	91.0	149.3
1989	61.1	96.5	72.2	114.0	67.6	106.8	73.9	116.7	104.8	165.6
1990	62.6	95.1	71.7	109.0	65.5	99.6	71.7	109.0	100.7	153.1
1991	63.3	93.3	70.7	104.0	62.8	92.5	71.4	105.2	79.4	116.8
1992	64.4	92.5	68.6	98.6	64.8	93.2	76.4	109.8	79.2	113.8
1993	65.3	91.7	68.9	96.8	62.7	88.1	84.8	119.0	69.4	97.4
1994	67.6	92.9	70.2	96.5	67.8	93.2	92.1	126.6	77.2	106.1
1995	76.3	102.7	88.5	119.1	88.4	118.9	92.6	124.6	122.0	164.1
1996	74.8	98.8	83.2	109.9	74.9	98.9	87.7	115.8	88.6	117.1
1997	74.4	96.4	80.1	103.7	69.7	90.2	82.8	107.2	85.6	110.9
1998	76.1	97.3	81.0	103.6	73.2	93.6	84.9	108.6	81.6	104.4
1999	77.2	97.3	79.0	99.6	73.9	93.2	90.5	114.1	79.7	100.5
2000	81.4	100.6	83.4	103.0	85.3	105.3	88.7	109.5	96.7	119.5
2001	81.9	98.8	83.9	101.2	83.1	100.2	82.6	99.7	83.8	101.0
2002	82.4	98.3	80.6	96.1	79.4	94.7	82.6	98.6	77.4	92.3
2003	84.2	100.5	81.3	97.1	78.5	93.7	102.2	121.9	80.8	96.4
2004	86.7	97.3	83.2	93.3	82.1	92.2	122.9	137.9	88.0	98.8
2005	89.8	97.6	88.9	96.6	84.7	92.1	118.1	128.4	91.9	99.9
2006	93.0	98.1	93.2	98.3	92.7	97.7	110.5	116.6	95.9	101.2
2007	96.1	98.8	94.3	96.9	97.3	100.0	99.2	101.9	107.5	110.5
2008	100.5	101.3	102.6	103.4	105.2	106.0	104.7	105.5	114.1	115.0
2009	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	105.0	103.9	101.4	100.3	108.5	107.4	107.6	106.5	123.8	122.5
2011	108.6	105.3	106.5	103.2	111.2	107.8	104.5	101.3	129.7	125.7
2012	108.2	103.0	106.7	101.6	110.0	104.8	119.6	113.9	123.8	117.9
2013	110.3	103.3	106.2	99.5	117.6	110.2	132.8	124.5	120.3	112.7
2014	111.0	102.6	107.3	99.1	120.0	110.8	120.7	111.5	122.3	113.0
2015	110.3	100.2	105.7	96.1	117.3	106.6	119.0	108.2	120.9	109.9
2016	109.8	98.5	104.0	93.3	112.6	101.1	128.5	115.3	114.2	102.5
2017	112.9	99.5	103.8	91.5	124.3	109.6	141.6	124.8	119.3	105.2

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).<sup>b</sup>Derived by dividing the actual price index by the all commodities price index.

**Table 52—Producer price indexes for wastepaper, by grade, 1965–2015 (2009 = 100)<sup>a</sup>**

Year	Wastepaper		Newspaper		Mixed papers		Corrugated		High grades <sup>b</sup>		Exports (all grades)	
	Actual	Relative <sup>c</sup>	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	44.3	244.1	z	z	z	z	z	z	z	z	z	z
1966	46.8	250.4	z	z	z	z	z	z	z	z	z	z
1967	34.8	180.7	z	z	z	z	z	z	z	z	z	z
1968	45.3	225.2	z	z	z	z	z	z	z	z	z	z
1969	48.3	229.3	z	z	z	z	z	z	z	z	z	z
1970	43.5	196.2	z	z	z	z	z	z	z	z	z	z
1971	39.0	167.2	71.3	305.4	21.3	91.2	61.8	264.7	z	z	z	z
1972	46.5	190.9	z	z	z	z	z	z	z	z	z	z
1973	68.7	266.7	z	z	z	z	z	z	z	z	z	z
1974	92.5	330.3	z	z	z	z	z	z	z	z	z	z
1975	38.4	125.4	77.3	252.7	18.0	58.8	49.7	162.6	z	z	z	z
1976	64.4	198.7	137.9	425.4	27.1	83.7	108.5	334.7	z	z	z	z
1977	65.2	188.9	144.8	419.3	30.3	87.6	103.3	299.1	z	z	z	z
1978	66.6	180.3	138.6	375.2	38.9	105.3	111.9	303.1	z	z	z	z
1979	71.9	180.2	104.9	262.7	35.5	88.8	154.3	386.6	z	z	z	z
1980	72.7	167.1	115.7	266.1	38.5	88.5	106.4	244.9	z	z	z	z
1981	61.2	128.8	66.1	139.1	32.9	69.3	76.6	161.3	z	z	z	z
1982	42.2	83.8	z	z	z	z	z	z	z	z	z	z
1983	z	z	z	z	z	z	z	z	z	z	z	z
1984	83.6	153.8	133.4	245.3	42.5	78.1	166.5	306.1	z	z	z	z
1985	51.9	92.5	103.7	184.9	36.1	64.4	81.1	144.7	z	z	z	z
1986	60.2	105.0	95.3	166.3	31.7	55.3	124.7	217.6	z	z	z	z
1987	76.5	129.8	121.5	206.1	37.6	63.7	164.1	278.3	80.9	137.2	54.1	91.7
1988	77.5	127.1	119.5	196.1	41.4	67.9	131.2	215.3	97.3	159.7	55.4	90.8
1989	66.3	104.7	62.0	97.9	28.3	44.7	94.5	149.3	100.5	158.8	48.9	77.3
1990	58.6	89.1	51.9	78.9	21.3	32.4	86.7	131.9	88.6	134.6	43.5	66.1
1991	51.2	75.4	50.8	74.8	15.7	23.2	86.4	127.3	71.4	105.2	39.2	57.7
1992	49.6	71.3	45.5	65.5	15.8	22.8	76.7	110.2	73.4	105.4	38.7	55.6
1993	49.5	69.5	50.3	70.6	22.1	31.1	74.5	104.6	70.4	98.8	35.8	50.2
1994	88.4	121.5	101.4	139.5	52.0	71.4	168.9	232.3	82.4	113.2	53.5	73.5
1995	156.6	210.7	212.3	285.6	127.4	171.4	269.8	363.1	118.5	159.5	95.9	129.0
1996	59.7	78.9	55.5	73.3	29.3	38.7	106.7	140.9	62.1	82.1	38.5	50.9
1997	68.9	89.2	53.4	69.2	25.9	33.6	130.3	168.8	72.0	93.2	45.5	58.9
1998	61.4	78.5	59.9	76.7	41.8	53.5	94.2	120.5	68.0	86.9	36.4	46.5
1999	77.5	97.7	82.7	104.2	97.8	123.3	106.7	134.6	73.9	93.2	50.0	63.1
2000	119.2	147.2	124.2	153.4	202.7	250.3	128.1	158.2	119.2	147.2	67.6	83.5
2001	62.7	75.6	76.9	92.8	50.2	60.5	69.6	84.0	74.7	90.1	37.9	45.7
2002	73.0	87.1	94.2	112.4	101.7	121.3	103.6	123.6	76.6	91.4	51.3	61.2
2003	83.2	99.3	103.5	123.5	137.7	164.3	105.2	125.5	92.3	110.1	53.3	63.6
2004	97.6	109.5	121.1	135.8	185.1	207.6	138.9	155.9	100.6	112.9	69.1	77.5
2005	97.4	105.9	118.8	129.1	162.1	176.2	131.5	142.9	100.9	109.7	72.8	79.2
2006	99.1	104.5	113.9	120.1	138.2	145.8	137.2	144.7	104.5	110.2	72.8	76.7
2007	155.6	159.8	152.6	156.8	201.6	207.2	213.7	219.6	145.4	149.4	116.7	119.9
2008	157.2	158.4	166.1	167.4	197.4	199.0	188.8	190.3	162.5	163.8	124.9	125.8
2009	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2010	177.8	176.0	134.3	132.9	193.5	191.5	211.1	208.8	174.5	172.7	188.4	186.4
2011	203.6	197.3	174.1	168.7	205.7	199.3	234.6	227.3	193.5	187.5	147.9	143.3
2012	156.4	149.0	120.4	114.7	183.0	174.3	175.9	167.5	148.1	141.1	147.9	140.8
2013	153.4	143.7	106.6	99.9	183.4	171.8	171.7	160.9	138.4	129.7	147.9	138.5
2014	144.3	133.3	91.0	84.0	153.7	142.0	156.3	144.3	148.1	136.8	147.9	136.6
2015	123.2	112.0	81.4	74.0	153.7	139.7	128.2	116.5	136.0	123.6	147.9	134.4
2016	131.9	118.4	91.3	81.9	153.7	138.0	136.4	122.4	145.8	130.9	147.9	132.7
2017	170.0	149.9	103.8	91.5	153.7	135.5	200.9	177.1	158.7	139.9	147.9	130.4

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).<sup>b</sup>Pulp substitutes and deinking; December 1986 = 100.<sup>c</sup>Derived by dividing the actual price index by the all commodities price index.<sup>z</sup>Not Available.

**Table 53—Particleboard and medium-density fiberboard production, imports, exports, and consumption, 1965–2017 (3/4-in. basis)<sup>a</sup>**

Year	Production					Consumption	
	Total	Particleboard	Medium-density fiberboard	Imports <sup>b</sup>	Exports	Total	Per capita
	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Square feet
1965	828	753	75	4	c	832	4
1966	1,031	948	83	1	c	1,032	5
1967	1,167	1,074	93	1	2	1,166	6
1968	1,494	1,391	103	1	6	1,489	7
1969	1,796	1,682	114	12	14	1,794	9
1970	1,858	1,731	127	3	10	1,851	9
1971	2,500	2,359	141	8	20	2,488	12
1972	3,236	3,079	157	14	45	3,205	15
1973	3,634	3,460	174	17	77	3,574	17
1974	3,269	3,075	194	7	113	3,163	15
1975	2,718	2,503	215	16	84	2,650	12
1976	3,469	3,189	280	60	80	3,449	16
1977	4,010	3,569	441	158	63	4,105	19
1978	4,228	3,720	508	193	61	4,360	20
1979	3,883	3,376	507	221	84	4,020	18
1980	3,443	2,950	493	264	106	3,601	16
1981	3,385	2,869	516	254	117	3,522	15
1982	2,839	2,393	446	766	41	3,564	15
1983	3,613	3,009	604	994	47	4,560	19
1984	3,830	3,196	634	1,331	54	5,107	22
1985	4,016	3,331	685	1,335	59	5,292	22
1986	4,384	3,603	781	1,395	86	5,693	24
1987	4,605	3,706	899	1,550	113	6,042	25
1988	4,768	3,829	939	1,634	163	6,239	25
1989	4,828	3,858	970	425	333	4,920	20
1990	4,756	3,806	950	363	373	4,746	19
1991	4,730	3,772	958	293	369	4,654	18
1992	5,046	3,980	1,066	405	394	5,057	20
1993	5,402	4,241	1,161	572	318	5,656	22
1994	5,793	4,542	1,251	775	297	6,271	24
1995	5,307	4,200	1,107	840	319	5,828	22
1996	5,705	4,459	1,246	814	154	6,365	24
1997	5,916	4,531	1,385	963	188	6,691	25
1998	5,994	4,593	1,401	1,038	135	6,897	26
1999 <sup>r</sup>	6,229	4,816	1,413	1,221	135	7,315	27
2000	6,292	4,804	1,488	1,856	162	7,986	28
2001	5,480	4,096	1,384	1,936	192	7,224	25
2002	6,035	4,414	1,621	1,377	212	7,200	25
2003	5,592	3,984	1,608	1,574	194	6,972	24
2004	6,052	4,305	1,747	1,751	195	7,608	26
2005	5,951	4,111	1,840	1,571	199	7,322	25
2006	5,911	4,055	1,856	1,283	205	6,989	24
2007	5,432	3,543	1,889	1,241	328	6,345	21
2008	4,623	2,916	1,707	1,180	398	5,404	18
2009	3,865	2,194	1,671	1,144	338	4,671	15
2010	3,709	2,287	1,422	1,326	400	4,634	15
2011	3,750	2,290	1,460	1,333	407	4,676	15
2012	3,750	2,290	1,460	1,520	462	4,808	15
2013	4,048	2,321	1,727	1,797	479	5,367	17
2014	4,054	2,388	1,667	3,638	503	7,189	23
2015	4,105	2,430	1,675	3,792	555	7,341	23
2016	4,084	2,345	1,739	2,957	448	6,593	20
2017	3,950	2,255	1,695	2,997	398	6,549	20

<sup>a</sup>Composite Panel Association (15); U.S. International Trade Commission (86,87);

U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>May contain significant volumes of waferboard and oriented strandboard products prior to 1989.<sup>c</sup>Fewer than 500,000 ft<sup>2</sup>.<sup>r</sup>Revised.

**Table 54—Insulating board<sup>a</sup> production, imports, exports, and consumption, 1965–2017 (1/2-in. basis)<sup>b</sup>**

Year	Production Million square feet	Imports <sup>c</sup> Million square feet	Exports Million square feet	Consumption	
				Total Million square feet	Per capita
				Million Square feet	Million Square feet
1965	3,362	75	42	3,395	17
1966	3,079	67	48	3,098	16
1967	3,209	69	45	3,233	16
1968	3,476	94	45	3,525	18
1969	3,623	98	65	3,656	18
1970	3,194	103	51	3,246	16
1971	3,839	115	65	3,889	19
1972	3,918	121	66	3,973	19
1973	3,914	140	79	3,975	19
1974	3,282	72	102	3,252	15
1975	2,960	36	77	2,919	14
1976	3,407	45	77	3,375	15
1977	3,462	107	84	3,485	16
1978	3,437	139	106	3,470	16
1979	3,310	138	49	3,399	15
1980	2,780	100	62	2,818	12
1981	2,124	104	110	2,118	9
1982	1,790	118	67	1,841	8
1983	2,277	204	83	2,398	10
1984	2,545	286	89	2,742	12
1985	2,461	343	80	2,724	11
1986	2,194	338	117	2,415	10
1987	2,242	273	127	2,388	10
1988	2,340	320	203	2,457	10
1989	2,455	346	180	2,621	11
1990	2,365	290	175	2,480	10
1991	2,323	200	191	2,332	9
1992	2,363	310	215	2,458	10
1993	2,358	285	208	2,435	9
1994	2,335	305	170	2,470	9
1995	2,335	305	170	2,470	9
1996	2,335	305	170	2,470	9
1997	2,335	305	170	2,470	9
1998	2,335	305	170	2,470	9
1999	2,335	305	170	2,470	9
2000	2,335	305	170	2,470	9
2001	2,335	305	170	2,470	9
2002	2,335	305	170	2,470	9
2003	2,335	305	170	2,470	8
2004	2,335	305	170	2,470	8
2005	2,335	305	170	2,470	8
2006	2,335	305	170	2,470	9
2007	2,335	305	170	2,470	8
2008	2,335	305	170	2,470	8
2009	2,335	305	170	2,470	8
2010	2,335	305	170	2,470	8
2011	2,335	305	170	2,470	8
2012	2,335	305	170	2,470	8
2013	2,335	305	170	2,470	8
2014	2,335	305	170	2,470	8
2015	2,335	305	170	2,470	8
2016	2,335	305	170	2,470	8
2017	2,335	305	170	2,470	8

<sup>a</sup>Density equal to or less than 31 lb/ft<sup>3</sup>.

<sup>b</sup>American Forest and Paper Association (3,5).

Data may not add to totals because of rounding.

<sup>c</sup>Includes other building board.

Table 55—Insulating board<sup>a</sup> production, imports, exports, and consumption, 1965–2017<sup>b</sup>

Year	Production Thousand tons	Imports <sup>c</sup> Thousand tons	Exports Thousand tons	Consumption	
				Total Thousand tons	Per capita pounds
1965	1,234	28	15	1,246	6
1966	1,130	25	18	1,137	6
1967	1,178	25	17	1,187	6
1968	1,276	34	17	1,294	6
1969	1,330	36	24	1,342	7
1970	1,172	38	19	1,191	6
1971	1,409	42	24	1,427	7
1972	1,438	44	24	1,458	7
1973	1,436	51	29	1,459	7
1974	1,204	26	37	1,193	6
1975	1,086	13	28	1,071	5
1976	1,250	17	28	1,239	6
1977	1,271	39	31	1,279	6
1978	1,261	51	39	1,273	6
1979	1,215	51	18	1,247	6
1980	1,020	37	23	1,034	5
1981	780	38	40	777	3
1982	657	43	25	676	3
1983	836	75	30	880	4
1984	934	105	33	1,006	4
1985	903	126	29	1,000	4
1986	805	124	43	886	4
1987	823	100	47	876	4
1988	859	117	75	902	4
1989	901	127	66	962	4
1990	868	106	64	910	4
1991	853	73	70	856	3
1992	867	114	79	902	4
1993	865	105	76	894	3
1994	857	112	62	906	3
1995	857	112	62	906	3
1996	857	112	62	906	3
1997	857	112	62	906	3
1998	857	112	62	906	3
1999	857	112	62	906	3
2000	857	112	62	906	3
2001	857	112	62	906	3
2002	857	112	62	906	3
2003	857	112	62	906	3
2004	857	112	62	906	3
2005	857	112	62	906	3
2006	857	112	62	906	3
2007	857	112	62	906	3
2008	857	112	62	906	3
2009	857	112	62	906	3
2010	857	112	62	906	3
2011	857	112	62	906	3
2012	857	112	62	906	3
2013	857	112	62	907	3
2014	857	112	62	906	3
2015	857	112	62	906	3
2016	857	112	62	906	3
2017	857	112	62	906	3

<sup>a</sup>Density equal to or less than 31 lb/ft<sup>3</sup>.<sup>b</sup>Product of Table 54 using a conversion of 0.367.<sup>c</sup>Includes other building board.

**Table 56—Hardboard<sup>a</sup> production, imports, exports, and consumption, 1965–2017 (1/8-in. basis)<sup>b</sup>**

Year	Production <sup>c</sup> Million square feet	Imports Million square feet	Exports Million square feet	Consumption	
				Total Million square feet	Per capita Square feet
1965	2,921	574	22	3,473	18
1966	3,083	459	32	3,510	18
1967	3,038	455	30	3,463	17
1968	3,710	623	40	4,293	21
1969	4,247	694	48	4,893	24
1970	4,384	452	77	4,759	23
1971	5,225	631	83	5,773	28
1972	5,798	1,060	103	6,755	32
1973	6,050	1,047	131	6,966	33
1974	5,654	739	175	6,218	29
1975	5,681	264	158	5,787	27
1976	6,785	486	187	7,084	32
1977	7,714	625	174	8,165	37
1978	7,825	903	78	8,650	39
1979	7,688	831	101	8,418	37
1980	6,140	515	87	6,568	29
1981	6,105	568	171	6,502	28
1982	5,587	458	47	5,998	26
1983	7,303	717	60	7,960	34
1984	6,837	807	64	7,580	32
1985	6,300	782	192	6,890	29
1986	5,822	855	182	6,495	27
1987	5,458	832	269	6,021	25
1988	5,118	633	322	5,429	22
1989	5,196	718	427	5,487	22
1990	5,025	689	552	5,162	21
1991	4,895	571	606	4,860	19
1992	5,273	571	836	5,008	20
1993	5,248	639	917	4,970	19
1994	5,206	1,119	1,190	5,135	20
1995	4,930	1,152	1,377	4,705	18
1996	5,280	1,183	1,426	5,037	19
1997	4,501	1,306	1,259	4,548	17
1998	4,300	1,273	871	4,703	17
1999	4,386	1,782	916	5,253	19
2000	3,781	1,764	942	4,602	16
2001	3,322	2,299	788	4,833	17
2002	2,919	2,676	669	4,926	17
2003	4,304	3,080	648	6,736	23
2004	3,880	4,188	1,005	7,063	24
2005	4,347	4,786	1,076	8,056	27
2006	3,870	4,899	1,321	7,448	26
2007	3,312	4,010	1,215	6,107	20
2008	2,916	2,407	1,138	4,185	14
2009	2,226	1,538	994	2,770	9
2010	2,718	1,118	920	2,916	9
2011	2,466	697	798	2,366	8
2012	2,201	608	769	2,040	6
2013	2,500	604	677	2,427	8
2014	2,532	525	531	2,526	8
2015	2,513	543	402	2,654	8
2016	2,688	733	416	3,005	9
2017	2,698	928	680	2,945	9

<sup>a</sup>Density greater than 31 lb/ft<sup>3</sup>.

<sup>b</sup>American Forest and Paper Association (3,4,5); U.S. International Trade Commission (86,87); Composite Panel Association (15); U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>c</sup>Data for the years 1982 to present are for shipments.

History numbers do not reflect entire industry.

**Table 57—Producer price indexes for hardboard and particleboard,  
1965–2017 (2009 = 100)<sup>a</sup>**

Year	Hardboard and particleboard <sup>b</sup>		Hardboard		Particleboard <sup>c</sup>	
	Actual	Relative <sup>d</sup>	Actual	Relative <sup>d</sup>	Actual	Relative <sup>d</sup>
1965	32.2	177.3	z	z	z	z
1966	32.0	171.3	z	z	z	z
1967	30.9	160.6	z	z	z	z
1968	30.7	152.5	z	z	z	z
1969	31.8	151.0	z	z	z	z
1970	28.8	129.9	z	z	z	z
1971	28.9	123.7	z	z	z	z
1972	29.8	122.4	z	z	z	z
1973	32.7	126.9	z	z	z	z
1974	35.6	127.2	z	z	z	z
1975	35.1	114.9	z	z	z	z
1976	38.3	118.1	z	z	z	z
1977	43.6	126.4	z	z	z	z
1978	52.8	142.8	z	z	z	z
1979	51.3	128.4	z	z	z	z
1980	59.1	135.9	z	z	z	z
1981	65.8	138.5	z	z	z	z
1982	68.0	134.9	z	z	z	z
1983	70.9	135.2	z	z	54.9	104.6
1984	73.6	135.4	z	z	60.2	110.6
1985	72.1	128.6	84.0	149.8	56.9	101.5
1986	72.9	127.2	85.3	148.8	58.0	101.3
1987	74.4	126.2	81.4	138.1	62.5	106.0
1988	75.6	124.0	80.5	132.1	64.7	106.2
1989	76.3	120.5	80.1	126.6	66.4	104.8
1990	73.1	111.1	80.2	121.9	60.5	92.0
1991	72.4	106.6	79.2	116.5	60.4	89.0
1992	78.1	112.3	82.0	117.9	62.5	89.8
1993	87.1	122.2	87.2	122.4	71.9	100.9
1994	94.5	129.9	89.3	122.7	80.4	110.5
1995	94.9	127.7	90.6	122.0	80.3	108.1
1996	89.5	118.2	95.0	125.5	77.2	102.0
1997	84.2	109.1	96.8	125.4	73.6	95.3
1998	86.6	110.8	95.7	122.4	71.8	91.8
1999	92.5	116.6	97.6	123.0	74.0	93.4
2000	90.3	111.5	99.3	122.6	76.5	94.5
2001	83.3	100.5	93.1	112.3	71.7	86.5
2002	83.1	99.2	91.4	109.0	69.7	83.1
2003	104.0	124.1	93.3	111.3	70.9	84.6
2004	125.9	141.3	97.1	108.9	90.5	101.5
2005	120.3	130.7	96.1	104.5	87.5	95.1
2006	111.8	117.9	98.6	104.0	102.4	108.0
2007	99.5	102.2	98.0	100.7	101.0	103.8
2008	105.0	105.8	100.4	101.2	107.7	108.6
2009	100.0	100.0	100.0	100.0	100.0	100.0
2010	107.7	106.6	104.3	103.2	98.3	97.3
2011	104.7	101.4	107.2	103.8	101.5	98.3
2012	120.1	114.4	107.7	102.6	108.5	103.3
2013	134.0	125.5	112.0	104.9	114.9	107.7
2014	121.1	111.8	116.0	107.1	121.4	112.1
2015	119.1	108.3	125.8	114.4	121.4	110.3
2016	128.8	115.6	126.7	113.7	121.5	109.1
2017	142.4	125.5	127.4	112.4	123.2	108.6

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).

<sup>b</sup>Hardboard, particleboard, and fiberboard products.

<sup>c</sup>Platen-type (mat formed).

<sup>d</sup>Derived by dividing the actual price index by the all commodities index.

<sup>z</sup>Not Available.

Table 58—Production of treated wood products by type of treatment, treatment plant, and product, 1984–2017 (thousands of board feet)<sup>a</sup>

Year	Total	Volume treated with				Plants treating with <sup>c</sup>			
		Creosote solutions	Oilborne <sup>b</sup> pressure	Waterborne pressure	Fire retardants	Creosote	Oilborne	Waterborne	Fire retardants
1984	5,989,488	1,651,128	643,320	3,620,364	74,676	120	95	445	75
1985	6,231,780	1,542,852	630,420	3,944,124	114,384	123	97	449	77
1986	6,649,236	1,424,988	593,808	4,505,496	124,944	117	81	475	79
1987	6,911,796	1,173,888	582,684	5,027,808	127,416	109	71	479	81
1988	7,189,740	1,085,772	574,428	5,406,780	122,760	97	65	484	80
1989	6,683,316	1,078,440	592,632	4,883,292	128,952	90	60	473	71
1990	7,027,620	1,118,304	559,104	5,252,100	98,112	85	65	458	66
1991	6,781,128	1,051,320	521,880	5,092,440	115,488	83	63	445	60
1992	7,025,796	1,078,452	477,876	5,369,244	100,224	81	44	432	57
1993	7,270,452	1,105,584	433,860	5,646,048	84,960	76	49	404	48
1994	7,609,020	1,134,780	495,348	5,962,596	16,296	85	33	461	44
1995	6,946,488	1,101,012	393,168	5,407,152	45,156	71	28	384	39
1996	7,099,307	1,038,136	401,934	5,614,264	44,974	68	27	368	29
1997	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
1998	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
1999	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2000	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2001	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2002	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2003	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2004	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2005	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2006	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2007	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2008	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2009	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2010	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2011	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2012	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2013	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2014	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2015	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2016	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2017	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35

Year	Total <sup>d</sup>	Volume by product				Fence posts	Crossties	Switch and bridge ties	Plywood (thousand sq.ft.)	Other <sup>e</sup>
		Lumber	Timbers	Poles	Pilings					
1984	3,980,729	948,965	324,492	931,896	142,068	235,800	1,064,640	98,376	179,936	234,492
1985	4,032,820	1,025,956	350,496	921,972	126,348	149,232	1,030,728	97,608	267,072	330,480
1986	4,136,740	1,173,628	387,348	880,092	125,784	208,092	965,316	70,884	297,664	325,596
1987	4,118,679	1,290,567	542,376	903,288	97,440	135,024	715,128	111,672	408,064	323,184
1988	4,136,768	1,417,868	540,204	854,292	116,388	148,848	693,240	75,780	406,560	290,148
1989	4,054,037	1,207,913	527,412	887,700	116,136	172,524	696,264	75,612	422,048	370,476
1990	4,240,101	1,290,657	576,012	882,012	86,232	178,488	755,856	85,980	392,736	384,864
1991	4,129,285	1,220,053	630,372	860,808	81,240	166,020	731,664	74,760	415,936	364,368
1992	4,236,767	1,284,479	622,284	812,592	93,012	165,504	747,348	77,052	430,368	434,496
1993	4,344,226	1,348,906	614,196	764,376	104,772	164,988	763,032	79,332	444,800	504,624
1994	5,146,279	1,084,470	970,867	903,974	121,390	246,946	756,648	120,036	651,267	941,949
1995	4,698,187	990,043	886,332	825,264	110,820	225,444	690,768	109,584	594,560	859,932
1996	4,470,363	1,160,247	667,572	762,792	101,028	281,208	669,948	68,880	681,088	758,688
1997	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
1998	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
1999	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2000	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2001	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2002	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2003	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2004	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2005	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2006	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2007	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2008	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2009	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2010	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2011	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2012	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2013	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2014	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2015	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2016	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2017	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053

<sup>a</sup>Wood Preservation Institute (91); American Plywood Association, The Engineered Wood Association (11,12,13).<sup>b</sup>Pentachlorophenol, Copper Napthenate, Zinc Napthenate, Copper-8-Quinolinolate, and TBTO (mostly pentachlorophenol).<sup>c</sup>1984 was estimated.<sup>d</sup>Excludes plywood.<sup>e</sup>Crossarms, landscape timbers, highway posts and guardrails, mine ties and timbers, crossing planks, and other misc. products not listed above.

Lumber taken from General Technical Report GTR-199 update, Table 11 Hardwood Recovery Factor.

Plywood taken from GTR-199 update, Hardwood Plywood Lumber Conversion Table B-7. All Other taken from GTR-199 update, Table B-10.

Table 59—Forest chemical products production in gallons and short tons, 1965–2017<sup>a</sup>

Year	Tall oil fatty acids			Turpentine <sup>b</sup>				Rosin <sup>c</sup>			
	Over 2% rosin		Under 2% rosin	Total	Sulphate turpentine <sup>d</sup>	Gum turpentine	Steam distilled	Total	Tall oil rosin	Gum rosin	Steam distilled rosin
	1,000 Short Tons	1,000 Short Tons	1,000 Short Tons	1,000 U.S. Gallons	1,000 U.S. Gallons	1,000 U.S. Gallons	1,000 U.S. Gallons	1,000 Short Tons	1,000 Short Tons	1,000 Short Tons	1,000 Short Tons
1965	164.0	z	z	35,033	21,033	5,569	8,432	591.2	179.2	103.3	308.8
1966	185.5	z	z	33,275	21,338	4,211	7,727	559.9	200.0	78.1	281.9
1967	183.2	z	z	31,397	20,987	3,387	7,024	534.5	194.6	63.9	275.9
1968	186.3	z	z	32,609	23,658	2,521	6,430	527.8	204.3	48.9	274.6
1969	203.9	z	z	30,869	23,975	1,750	5,144	498.1	226.8	34.0	237.4
1970	220.2	z	z	28,790	22,768	1,292	4,731	473.6	228.7	25.1	219.8
1971	223.9	z	z	28,433	22,745	1,418	4,270	466.3	230.3	26.3	209.8
1972	235.9	z	z	28,295	23,206	1,328	3,761	465.7	240.1	25.5	200.1
1973	226.8	z	z	27,308	22,629	1,143	3,536	418.4	222.2	20.2	176.0
1974	199.8	z	z	25,583	21,379	797	3,407	369.3	198.0	14.5	156.8
1975	161.3	z	z	21,471	18,575	1,006	1,890	264.0	160.7	17.8	85.5
1976	205.7	z	z	24,183	20,265	920	2,998	350.2	201.7	16.8	131.7
1977	197.6	98.0	99.6	23,646	20,297	731	2,618	341.1	202.4	13.4	125.3
1978	193.8	102.1	91.7	24,949	22,066	517	2,366	340.8	211.5	9.4	119.9
1979	210.8	107.1	103.6	26,257	23,449	369	2,439	354.4	231.7	7.0	115.7
1980	209.0	114.8	94.2	27,685	24,979	314	2,392	343.6	223.3	5.9	114.4
1981	210.7	102.1	108.6	25,765	23,310	270	2,185	331.3	221.8	5.1	104.5
1982	187.7	91.1	96.6	23,353	21,283	230	1,840	286.4	194.0	4.4	88.0
1983	214.0	103.4	110.6	23,808	22,193	235	1,380	303.9	211.6	4.3	88.0
1984	235.8	118.4	117.5	23,233	21,628	225	1,380	295.8	225.6	4.2	66.0
1985	204.6	106.8	97.8	22,191	21,096	175	920	261.9	214.5	3.4	44.0
1986	215.1	112.5	102.5	21,956	21,956	z	z	216.8	216.8	z	z
1987	231.0	114.1	116.9	23,196	23,196	z	z	252.1	252.1	z	z
1988	239.4	118.9	120.5	28,000	28,000	z	z	256.5	256.5	z	z
1989	241.2	114.7	126.5	29,749	29,749	z	z	262.1	262.1	z	z
1990	236.8	112.8	124.1	31,077	31,077	z	z	274.6	274.6	z	z
1991	264.8	125.7	139.0	25,767	25,767	z	z	262.9	262.9	z	z
1992	251.9	115.0	137.0	24,498	24,498	z	z	266.1	266.1	z	z
1993	255.2	107.4	147.8	27,114	27,114	z	z	285.6	285.6	z	z
1994	279.1	124.6	154.4	26,424	26,424	z	z	281.8	281.8	z	z
1995	249.8	109.0	140.8	25,328	25,328	z	z	272.6	272.6	z	z
1996	254.7	109.0	145.6	22,412	22,412	z	z	290.6	290.6	z	z
1997	273.7	112.8	160.9	25,564	25,564	z	z	308.4	308.4	z	z
1998	281.9	130.8	151.1	24,146	24,146	z	z	271.7	271.7	z	z
1999	290.2	133.7	156.5	20,733	20,733	z	z	231.1	231.1	z	z
2000	263.0	102.1	160.9	23,080	23,080	z	z	245.0	245.0	z	z
2001	232.2	95.4	136.8	22,454	22,454	z	z	206.7	206.7	z	z
2002	241.4	102.1	139.3	24,162	24,162	z	z	229.8	229.8	z	z
2003	281.4	117.7	163.7	23,063	23,063	z	z	241.5	241.5	z	z
2004	383.0	191.5	191.5	22,468	22,468	z	z	268.7	268.7	z	z
2005	373.8	182.3	191.5	22,077	22,077	z	z	261.3	261.3	z	z
2006	374.1	z	z	21,798	21,798	z	z	277.2	277.2	z	z
2007	379.5	z	z	22,450	22,450	z	z	281.6	281.6	z	z
2008	385.2	z	z	23,124	23,124	z	z	286.1	286.1	z	z
2009	375.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2010	375.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2011	375.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2012	376.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2013	376.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2014	376.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2015	376.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2016	376.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z
2017	376.3	z	z	22,676	22,676	z	z	280.4	280.4	z	z

<sup>a</sup>Naval Stores Review (31); Pine Chemicals Association (33).<sup>b</sup>1965–1972 numbers are converted from 50-gallon barrels to 1,000 gallons.<sup>c</sup>1965–1972 numbers are converted from 520-lb drums to 1,000 short tons.<sup>d</sup>1988–present represents crude turpentine production.

zNot Available.

**Table 60—Wood energy use in the United States, 1973–2017<sup>a</sup>**

Year	Trillion Btu					Million cubic feet of wood equivalent				
	Total	Residential	Commercial	Industrial	Electric utilities	Total	Residential	Commercial	Industrial	Electric utilities
1973	1,527	354	7	1,165	1	6,108	1,416	27	4,659	5
1974	1,538	371	7	1,159	1	6,151	1,484	28	4,636	3
1975	1,497	425	8	1,063	0	5,988	1,702	32	4,253	1
1976	1,711	482	9	1,220	1	6,846	1,927	36	4,880	4
1977	1,837	542	10	1,281	3	7,346	2,167	41	5,125	13
1978	2,036	622	12	1,400	2	8,145	2,487	47	5,602	8
1979	2,150	728	14	1,405	3	8,599	2,912	55	5,619	12
1980	2,483	859	21	1,600	3	9,931	3,436	84	6,400	11
1981	2,495	869	21	1,602	3	9,978	3,476	84	6,408	10
1982	2,477	937	22	1,516	2	9,908	3,748	88	6,064	8
1983	2,639	925	22	1,690	2	10,557	3,700	88	6,760	9
1984	2,629	923	22	1,679	5	10,515	3,692	88	6,716	19
1985	2,576	899	24	1,645	8	10,303	3,596	96	6,580	31
1986	2,518	876	27	1,610	5	10,073	3,504	108	6,440	21
1987	2,465	852	29	1,576	8	9,861	3,408	116	6,304	33
1988	2,552	885	32	1,625	10	10,207	3,540	128	6,500	39
1989	2,637	918	36	1,584	100	10,548	3,672	144	6,334	398
1990	2,191	581	39	1,442	129	8,762	2,324	157	5,768	514
1991	2,190	613	41	1,410	126	8,759	2,452	164	5,639	503
1992	2,290	645	44	1,461	140	9,162	2,580	176	5,845	561
1993	2,227	548	46	1,483	150	8,907	2,192	183	5,933	599
1994	2,315	537	46	1,580	152	9,261	2,148	184	6,319	609
1995	2,420	596	46	1,652	125	9,678	2,384	184	6,608	502
1996	2,467	595	50	1,684	138	9,867	2,380	202	6,734	551
1997	2,350	433	49	1,731	137	9,398	1,732	196	6,922	548
1998	2,175	387	48	1,603	137	8,702	1,549	193	6,414	547
1999	2,224	414	52	1,620	138	8,895	1,655	209	6,478	552
2000	2,257	433	53	1,636	134	9,027	1,733	213	6,544	537
2001	1,980	370	40	1,443	126	7,918	1,480	162	5,770	506
2002	1,899	313	39	1,396	150	7,595	1,252	157	5,586	601
2003	1,929	359	40	1,363	167	7,717	1,436	159	5,453	669
2004	2,015	332	41	1,476	165	8,060	1,329	166	5,904	661
2005	1,826	332	41	1,284	168	7,302	1,329	166	5,137	670
2006	2,109	390	65	1,472	182	8,436	1,560	259	5,890	727
2007	2,098	430	69	1,413	186	8,394	1,720	278	5,652	744
2008	2,044	450	73	1,344	177	8,177	1,800	292	5,375	709
2009	1,881	430	72	1,198	180	7,522	1,720	290	4,792	720
2010	1,979	420	70	1,293	189	7,916	1,680	281	5,172	755
2011	1,967	420	70	1,302	175	7,868	1,680	280	5,208	700
2012	2,010	420	61	1,339	190	8,040	1,680	244	5,356	760
2013	2,138	580	70	1,281	207	8,552	2,320	280	5,124	828
2014	2,410	587	76	1,495	251	9,640	2,348	304	5,980	1,004
2015	2,235	436	79	1,476	244	8,940	1,744	316	5,904	976
2016	2,131	349	84	1,474	224	8,524	1,396	336	5,896	896
2017	2,145	334	84	1,480	247	8,580	1,336	336	5,920	988

<sup>a</sup>Wood equivalent is estimated using one quadrillion Btus equal to 4 billion cubic feet of wood.

Actual wood fuel includes roundwood, bark, mill residue, and black liquor from pulp mills.

Source: U.S. Dept. of Energy, Energy Information Administration (77).